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<212> DNA

<213> Homo sapiens

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<211> 2182

<212> DNA

<213> Homo sapiens

<400> 1890

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<212> DNA

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<210> 1892

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<212> DNA

<213> Homo sapiens

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<400> 1893

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<212> DNA

<213> Homo sapiens

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<400> 1895

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<211> 3609

<212> DNA

<213> Homo sapiens

<400> 1896

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<400> 1905

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<400> 1906

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<400> 1907

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<211> 3622

<212> DNA

<213> Homo sapiens

<400> 1908

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<213> Homo sapiens

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<400> 1917

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<212> DNA

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<210> 1921

<211> 3751

<212> DNA

<213> Homo sapiens

<400> 1921

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<210> 1922

<211> 3176

<212> DNA

<213> Homo sapiens

<400> 1922

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<210> 1923

<211> 3294

<212> DNA

<213> Homo sapiens

<400> 1923

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<210> 1924

<211> 2452

<212> DNA

<213> Homo sapiens

<400> 1924

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<210> 1925

<211> 3357

<212> DNA

<213> Homo sapiens

<400> 1925

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<211> 1990

<212> DNA

<213> Homo sapiens

<400> 1926

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<210> 1927

<211> 1886

<212> DNA

<213> Homo sapiens

<400> 1927

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<210> 1928

<211> 2347

<212> DNA

<213> Homo sapiens

<400> 1928

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<212> DNA

<213> Homo sapiens

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<211> 2179

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 1931

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<211> 2142

<212> DNA

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<210> 1933

<211> 2145

<212> DNA

<213> Homo sapiens

<400> 1933

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<211> 1776

<212> DNA

<213> Homo sapiens

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<211> 2828

<212> DNA

<213> Homo sapiens

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<210> 1937

<211> 2299

<212> DNA

<213> Homo sapiens

<400> 1937

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<211> 1854

<212> DNA

<213> Homo sapiens

<400> 1938

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<211> 2913

<212> DNA

<213> Homo sapiens

<400> 1939

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<211> 2287

<212> DNA

<213> Homo sapiens

<400> 1940

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<210> 1941

<211> 2094

<212> DNA

<213> Homo sapiens

<400> 1941

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<210> 1942

<211> 1995

<212> DNA

<213> Homo sapiens

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<212> DNA

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<211> 1082

<212> DNA

<213> Homo sapiens

<400> 1944

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<210> 1949

<211> 1974

<212> DNA

<213> Homo sapiens

<400> 1949

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<210> 1950

<211> 2039

<212> DNA

<213> Homo sapiens

<400> 1950

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<210> 1951

<211> 2010

<212> DNA

<213> Homo sapiens

<400> 1951

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<210> 1952

<211> 2096

<212> DNA

<213> Homo sapiens

<400> 1952

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<210> 1953

<211> 2707

<212> DNA

<213> Homo sapiens

<400> 1953

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<210> 1954

<211> 1830

<212> DNA

<213> Homo sapiens

<400> 1954

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<210> 1955

<211> 1940

<212> DNA

<213> Homo sapiens

<400> 1955

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<210> 1956

<211> 1958

<212> DNA

<213> Homo sapiens

<400> 1956

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<210> 1957

<211> 3131

<212> DNA

<213> Homo sapiens

<400> 1957

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<210> 1958

<211> 3563

<212> DNA

<213> Homo sapiens

<400> 1958

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<210> 1959

<211> 2181

<212> DNA

<213> Homo sapiens

<400> 1959

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<211> 2287

<212> DNA

<213> Homo sapiens

<400> 1960

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<212> DNA

<213> Homo sapiens

<400> 1961

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<211> 1778

<212> DNA

<213> Homo sapiens

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<211> 2056

<212> DNA

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<211> 2624

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<210> 1966

<211> 2139

<212> DNA

<213> Homo sapiens

<400> 1966

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<210> 1967

<211> 2386

<212> DNA

<213> Homo sapiens

<400> 1967

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<210> 1968

<211> 2690

<212> DNA

<213> Homo sapiens

<400> 1968

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<210> 1969

<211> 1603

<212> DNA

<213> Homo sapiens

<400> 1969

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<210> 1970

<211> 2221

<212> DNA

<213> Homo sapiens

<400> 1970

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<210> 1971

<211> 1924

<212> DNA

<213> Homo sapiens

<400> 1971

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<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA

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<212> DNA

<213> Homo sapiens

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<212> DNA

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<212> DNA

<213> Homo sapiens

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<211> 1623

<212> DNA

<213> Homo sapiens

<400> 1994

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<211> 1766

<212> DNA

<213> Homo sapiens

<400> 2051

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<211> 1727

<212> DNA

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<210> 2053

<211> 2079

<212> DNA

<213> Homo sapiens

<400> 2053

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<210> 2054

<211> 1913

<212> DNA

<213> Homo sapiens

<400> 2054

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<211> 2751

<212> DNA

<213> Homo sapiens

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<211> 2816

<212> DNA

<213> Homo sapiens

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<211> 1766

<212> DNA

<213> Homo sapiens

<400> 2057

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<211> 3359

<212> DNA

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<211> 1692

<212> DNA

<213> Homo sapiens

<400> 2059

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<211> 2269

<212> DNA

<213> Homo sapiens

<400> 2060

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<211> 2395

<212> DNA

<213> Homo sapiens

<400> 2061

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<211> 2284

<212> DNA

<213> Homo sapiens

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<211> 2573

<212> DNA

<213> Homo sapiens

<400> 2066

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<211> 2563

<212> DNA

<213> Homo sapiens

<400> 2067

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<211> 3219

<212> DNA

<213> Homo sapiens

<400> 2068

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<211> 3341

<212> DNA

<213> Homo sapiens

<400> 2069

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<211> 2517

<212> DNA

<213> Homo sapiens

<400> 2070

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<213> Homo sapiens

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<211> 2239

<212> DNA

<213> Homo sapiens

<400> 2076

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<210> 2077

<211> 1670

<212> DNA

<213> Homo sapiens

<400> 2077

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<210> 2078

<211> 2899

<212> DNA

<213> Homo sapiens

<400> 2078

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<210> 2079

<211> 1866

<212> DNA

<213> Homo sapiens

<400> 2079

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<210> 2080

<211> 2368

<212> DNA

<213> Homo sapiens

<400> 2080

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<210> 2081

<211> 2295

<212> DNA

<213> Homo sapiens

<400> 2081

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<213> Homo sapiens

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<211> 1894

<212> DNA

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<211> 1963

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 2548

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<212> DNA

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 3019

<212> DNA

<213> Homo sapiens

<400> 2097

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<213> Homo sapiens

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<210> 2189

<211> 239

<212> PRT

<213> Homo sapiens

<400> 2189

Met His Thr His Thr His Thr His Thr Thr Pro Lys Met Ala Asp Leu
 1 5 10 15
 Leu Gly Ser Ile Leu Ser Ser Met Glu Lys Pro Pro Ser Leu Gly Asp
 20 25 30
 Gln Glu Thr Arg Arg Lys Ala Arg Glu Gln Ala Ala Arg Leu Lys Lys
 35 40 45
 Leu Gln Glu Gln Glu Lys Gln Gln Lys Val Glu Phe Arg Lys Arg Met
 50 55 60
 Glu Lys Glu Val Ser Asp Phe Ile Gln Asp Ser Gly Gln Ile Lys Lys
 65 70 75 80
 Lys Phe Gln Pro Met Asn Lys Ile Glu Arg Ser Ile Leu His Asp Val
 85 90 95
 Val Glu Val Ala Gly Leu Thr Ser Phe Ser Phe Gly Glu Asp Asp Asp
 100 105 110
 Cys Arg Tyr Val Met Ile Phe Lys Lys Glu Phe Ala Pro Ser Asp Glu
 115 120 125
 Glu Leu Asp Ser Tyr Arg Arg Gly Glu Glu Trp Asp Pro Gln Lys Ala
 130 135 140
 Glu Glu Lys Arg Lys Leu Lys Glu Leu Ala Gln Arg Gln Glu Glu Glu
 145 150 155 160
 Ala Ala Gln Gln Gly Pro Val Val Val Ser Pro Ala Ser Asp Tyr Lys
 165 170 175
 Asp Lys Tyr Ser His Leu Ile Gly Lys Gly Ala Ala Lys Asp Ala Ala
 180 185 190
 His Met Leu Gln Ala Asn Lys Thr Tyr Gly Cys Val Pro Val Ala Asn
 195 200 205
 Lys Arg Asp Thr Arg Ser Ile Glu Glu Ala Met Asn Glu Ile Arg Ala
 210 215 220
 Lys Lys Arg Leu Arg Gln Ser Gly Glu Glu Leu Pro Pro Thr Ser
 225 230 235

<210> 2190

<211> 213

<212> PRT

<213> Homo sapiens

<400> 2190

Met Ala Ala Ala Ala Ala Gly Glu Ala Arg Arg Val Leu Val Tyr
 1 5 10 15
 Gly Gly Arg Gly Ala Leu Gly Ser Arg Cys Val Gln Ala Phe Arg Ala
 20 25 30
 Arg Asn Trp Val Thr Ala Glu Val Gly Lys Leu Leu Gly Glu Glu Lys
 35 40 45
 Val Asp Ala Ile Leu Cys Val Ala Gly Gly Trp Ala Gly Gly Asn Ala
 50 55 60
 Lys Ser Lys Ser Leu Phe Lys Asn Cys Asp Leu Met Trp Lys Gln Ser
 65 70 75 80
 Ile Trp Thr Ser Thr Ile Ser Ser His Leu Ala Thr Lys His Leu Lys
 85 90 95
 Glu Gly Gly Leu Leu Thr Leu Ala Gly Ala Lys Ala Ala Leu Asp Gly
 100 105 110
 Thr Pro Gly Met Ile Gly Tyr Gly Met Ala Lys Gly Ala Val His Gln
 115 120 125
 Leu Cys Gln Ser Leu Ala Gly Lys Asn Ser Gly Met Pro Pro Gly Ala
 130 135 140
 Ala Ala Ile Ala Val Leu Pro Val Thr Leu Asp Thr Pro Met Asn Arg
 145 150 155 160
 Lys Ser Met Pro Glu Ala Asp Phe Ser Ser Trp Thr Pro Leu Glu Phe
 165 170 175
 Leu Val Glu Thr Phe His Asp Trp Ile Thr Gly Lys Asn Arg Pro Ser
 180 185 190
 Ser Gly Ser Leu Ile Gln Val Val Thr Thr Glu Gly Arg Thr Glu Leu
 195 200 205
 Thr Pro Ala Tyr Phe
 210

<210> 2191

<211> 244

<212> PRT

<213> Homo sapiens

<400> 2191

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Met Glu Gln Leu Lys Ser Phe Gln Ile Ile Ala His Leu Lys Arg Leu
  1             5             10            15
Gln Glu Glu Ile Asn Glu Val Lys Thr Trp Ser Asn Arg Ile Thr Glu
      20             25            30
Lys Gln Asp Ile Leu Asn Asn Ser Leu Thr Thr Leu Ser Gln Asp Ile
      35             40            45
Thr Lys Val Asp Gln Ser Thr Thr Ser Met Ala Lys Asp Val Gly Leu
      50             55            60
Lys Ile Thr Ser Val Lys Thr Asp Ile Arg Arg Ile Ser Gly Leu Val
      65             70            75            80
Thr Asp Val Ile Ser Leu Thr Asp Ser Val Gln Glu Leu Glu Asn Lys
      85             90            95
Ile Glu Lys Val Glu Lys Asn Thr Val Lys Asn Ile Gly Asp Leu Leu
      100            105            110
Ser Ser Ser Ile Asp Arg Thr Ala Thr Leu Arg Lys Thr Ala Ser Glu
      115            120            125
Asn Ser Gln Arg Ile Asn Ser Val Lys Lys Thr Leu Thr Glu Leu Lys
      130            135            140
Ser Asp Phe Asp Lys His Thr Asp Arg Phe Leu Ser Leu Glu Gly Asp
      145            150            155            160
Arg Ala Lys Val Leu Lys Thr Val Thr Phe Ala Asn Asp Leu Lys Pro
      165            170            175
Lys Val Tyr Asn Leu Lys Lys Asp Phe Ser Arg Leu Glu Pro Leu Val
      180            185            190
Asn Asp Leu Thr Leu Arg Ile Gly Arg Leu Val Thr Asp Leu Leu Gln
      195            200            205
Arg Glu Lys Glu Ile Ala Phe Leu Ser Glu Lys Ile Ser Asn Leu Thr
      210            215            220
Ile Val Gln Ala Glu Ile Lys Asp Ile Lys Asp Glu Ile Ala His Ile
      225            230            235            240
Ser Asp Met Asn

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<210> 2192

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2192

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Met Gln Ser Lys Ala Pro Leu Met Pro Ala Ala Leu Arg Pro Ser Met
  1              5              10              15
Ser Pro Ala Gln Gln Ser Ser Tyr Tyr Lys Arg His Arg Ala Glu His
          20              25              30
Ile Ala Ser Asp Pro Glu Glu Ser Pro Pro Ser Gln Leu Gly Thr Ile
          35              40              45
Val Lys Glu Met Cys Trp Arg Lys Ser Pro Ser Val Ser Cys Leu Ser
          50              55              60
Ile Lys Leu His Ser Val Trp Val Cys Ile Leu Pro Ile Leu Ala Val
          65              70              75              80
Leu Gly Leu Arg Ile Leu Gly Ser Ser Arg Val Ser Ile Pro Tyr His
          85              90              95
Ala His Leu Gly Asn Arg Gly Thr Gly Gln Tyr Arg
          100              105

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<210> 2193

<211> 475

<212> PRT

<213> Homo sapiens

<400> 2193

```

Met Asp Trp Thr Trp Arg Val Leu Phe Val Val Ala Ala Ser Thr Gly
  1              5              10              15
Val Gln Ser Gln Val Gln Leu Met Gln Ser Gly Ala Glu Val Lys Lys
          20              25              30
Pro Gly Ser Ser Val Lys Val Ser Cys Lys Thr Ser Gly Ala Ser Phe
          35              40              45
Ala Ser Tyr Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu

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50	55	60
Glu Trp Met Gly Gly Ile Ile Pro Val Phe Arg Thr Pro Asn Tyr Ala		
65	70	75
Gln Lys Phe Gln Gly Arg Leu Thr Ile Thr Ala Asp Asp Ser Thr Gly		80
	85	90
Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Tyr Glu Asp Thr Ala Val		95
	100	105
Tyr Tyr Cys Ala Ser Leu Ala Cys Gly Asp Asp Cys Ser Phe Leu Tyr		110
	115	120
His Tyr Tyr Met Ala Ala Trp Gly Arg Gly Thr Ala Val Thr Val Ser		125
	130	135
Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser		140
145	150	155
Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp		160
	165	170
Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr		175
	180	185
Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr		190
	195	200
Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln		205
	210	215
Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp		220
225	230	235
Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro		240
	245	250
Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro		255
	260	265
Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr		270
	275	280
Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn		285
	290	295
Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg		300
305	310	315
Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val		320
	325	330
Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser		335

340	345	350
Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys		
355	360	365
Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp		
370	375	380
Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe		
385	390	395
Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu		
405	410	415
Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe		
420	425	430
Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly		
435	440	445
Asn Val Phe Ser Cys Ser Val Met His Glu Gly Leu His Asn His Tyr		
450	455	460
Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys		
465	470	475

<210> 2194

<211> 133

<212> PRT

<213> Homo sapiens

<400> 2194

Met Cys Gly Val Met Ile Tyr Val Phe Phe Phe Glu Met Gly Trp Ser
1 5 10 15
Leu Ala Leu Ser Pro Arg Leu Glu Cys Ser Gly Val Ile Leu Ala His
20 25 30
Cys Asn Leu Cys Leu Leu Gly Ser Ser Asp Leu Pro Ala Ser Ala Ser
35 40 45
Ser Val Ala Gly Thr Thr Gly Ala Cys Gln His Thr Arg Leu Ile Phe
50 55 60
Val Phe Leu Val Glu Thr Lys Val Pro Gly Leu Lys Arg Ser Met Gly
65 70 75 80
Leu Ser Phe Leu Lys Cys Trp Asp Tyr Arg Arg Glu Pro Leu Tyr Thr

	85		90		95										
Phe	Asn	Leu	Ile	Ser	Cys	Met	Tyr	Tyr	Thr	Pro	Asp	Phe	Lys	Phe	Tyr
	100							105					110		
Arg	Pro	Leu	Ile	Phe	Tyr	Ser	Leu	Pro	Lys	Gln	Met	Thr	Arg	Phe	Leu
	115							120					125		
Ala	Val	Phe	Ser	Gly											
	130														

<210> 2195

<211> 124

<212> PRT

<213> Homo sapiens

<400> 2195

Met	Leu	Pro	Ser	Lys	Ala	Phe	Glu	Phe	Ala	Thr	Val	Lys	Ser	Met	His
1				5					10					15	
Gly	Ile	Phe	Gly	Cys	Gly	Leu	Ala	Leu	Pro	Pro	Val	Phe	Thr	Ala	Glu
			20						25				30		
Leu	Leu	Tyr	Leu	Thr	Arg	Ala	Cys	Ala	Ser	Asp	Glu	Gln	Pro	Phe	Ile
		35					40					45			
Thr	Ala	Leu	Arg	Pro	Pro	Pro	Arg	Pro	Pro	Pro	Ser	Ala	Leu	Gln	Phe
	50					55					60				
Ile	Ser	Arg	Leu	Val	Pro	Ile	Ala	Thr	Cys	Gly	Leu	Gly	Gly	Pro	Pro
65				70					75					80	
Asp	Ile	Leu	Ser	Phe	Gly	Ser	Pro	Val	Thr	Pro	Glu	Leu	Leu	Pro	Phe
				85					90					95	
Trp	Gly	Ala	His	Ile	Cys	Asp	Thr	Leu	Val	Cys	Pro	Val	His	Phe	Leu
		100						105					110		
His	Leu	Glu	Phe	Leu	Ser	Cys	Ser	His	Ile	Ser	Ile				
		115						120							

<210> 2196

<211> 139

<212> PRT

<213> Homo sapiens

<400> 2196

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Met Lys Arg Gly Tyr Pro His Pro Ser Glu Gly Leu Ser Val Gly Leu
 1             5             10             15
Gln Ala Pro Leu Ala Ser Cys Leu Leu Val Gly Thr Ser Gly Ala Ala
      20             25             30
His Cys Gln Val Gln Leu Ser Arg Pro Cys Cys Val Trp Gly Gln Trp
      35             40             45
Ala Leu Glu Ser Ser Ser Gln Thr Ala Pro Gly Ala Val Pro Leu Ser
      50             55             60
Leu Leu Leu Leu Pro Arg Pro Arg Cys Ser Leu Ser Val Leu Gln His
      65             70             75             80
Arg Ala Leu Asp Cys Pro Cys Pro Ala Gly Gly Ala Gly Gln His Trp
      85             90             95
Ser His Ser Leu Arg Trp Cys His Ser Ser Pro Glu Glu Leu Ser Ser
      100            105            110
Arg His Arg Ile Pro Pro Val Thr Ile Gly Arg Gln Asp Thr Gln Asp
      115            120            125
Leu Gly Gly Cys Gly Thr Ser Glu Arg Arg Gly
      130            135

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<210> 2197

<211> 157

<212> PRT

<213> Homo sapiens

<400> 2197

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Met Gly Gly Pro Gly Leu Gly Ser His Leu Ser Gly Gly Gly Trp Ser
 1             5             10             15
Arg Ala Arg Ser Met Cys Thr Pro Gly Thr Lys Asp Pro Arg Ala Leu
      20             25             30
Leu Leu Asp Ala Leu Arg Ser Pro Thr Ser Asn Gln Asp Leu Gly Glu
      35             40             45
Ala Ser Leu Gln Ala Thr Leu Leu Gly Leu Ala Ala Leu Asn Lys Ala

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50 55 60
 Tyr Pro Glu Val Leu Ala Gln Gly Arg Thr Ala Arg Val Thr Leu Thr
 65 70 75 80
 Ser Pro Trp Pro Arg Pro Leu Pro Trp Pro Gly Asn Thr Leu Gly Gln
 85 90 95
 Val Gly Thr Pro Gly Thr Lys Ala Leu Arg Trp Cys Leu Gln Gly Ala
 100 105 110
 Gln Arg Pro His Cys Ser Leu Arg Arg Ser Thr Asp Ile Ser Thr Phe
 115 120 125
 Arg Asn His Leu Pro Leu Thr Lys Ala Ser Gln Thr Gln Gln Glu Asp
 130 135 140
 Ser Gly Glu Gln Pro Leu Pro Pro Thr Ser Asn Gln Gly
 145 150 155

<210> 2198

<211> 392

<212> PRT

<213> Homo sapiens

<400> 2198

Met Leu Ala Pro Cys Phe Leu Tyr Ser Leu Gln Asn Trp Asp Ile Ile
 1 5 10 15
 Phe Asn Ala Gln Tyr Pro Glu Leu Pro Pro Asp Phe Ile Phe Gly Glu
 20 25 30
 Asp Ala Glu Phe Leu Pro Asp Pro Ser Ala Leu Gln Asn Leu Ala Ser
 35 40 45
 Trp Asn Pro Ser Asn Pro Glu Cys Leu Leu Leu Val Val Lys Glu Leu
 50 55 60
 Val Gln Gln Tyr His Gln Phe Gln Cys Ser Arg Leu Arg Glu Ser Ser
 65 70 75 80
 Arg Leu Met Phe Glu Tyr Gln Thr Leu Leu Glu Glu Pro Gln Tyr Gly
 85 90 95
 Glu Asn Met Glu Ile Tyr Ala Gly Lys Lys Asn Asn Trp Asn Leu Ala
 100 105 110
 Ser Trp Asn Pro Ser Asn Pro Glu Cys Leu Leu Leu Val Val Lys Glu

115	120	125
Leu Val Gln Gln Tyr His Gln Phe Gln Cys Ser Arg Leu Arg Glu Ser		
130	135	140
Ser Arg Leu Met Phe Glu Tyr Gln Thr Leu Leu Glu Glu Pro Gln Tyr		
145	150	155
Gly Glu Asn Met Glu Ile Tyr Ala Gly Lys Lys Asn Asn Trp Thr Gly		
165	170	175
Glu Phe Ser Ala Arg Phe Leu Leu Lys Leu Pro Val Asp Phe Ser Asn		
180	185	190
Ile Pro Thr Tyr Leu Leu Lys Asp Val Asn Glu Asp Pro Gly Glu Asp		
195	200	205
Val Ala Leu Leu Ser Val Ser Phe Glu Asp Thr Glu Ala Thr Gln Val		
210	215	220
Tyr Pro Lys Leu Tyr Leu Ser Pro Arg Ile Glu His Ala Leu Gly Gly		
225	230	235
Ser Ser Ala Leu His Ile Pro Ala Phe Pro Gly Gly Gly Cys Leu Ile		
245	250	255
Asp Tyr Val Pro Gln Val Cys His Leu Leu Thr Asn Lys Val Gln Tyr		
260	265	270
Val Ile Gln Gly Tyr His Lys Arg Arg Glu Tyr Ile Ala Ala Phe Leu		
275	280	285
Ser His Phe Gly Thr Gly Val Val Glu Tyr Asp Ala Glu Gly Phe Thr		
290	295	300
Lys Leu Thr Leu Leu Leu Met Trp Lys Asp Phe Cys Phe Leu Val His		
305	310	315
Ile Asp Leu Pro Leu Phe Phe Pro Arg Asp Gln Pro Thr Leu Thr Phe		
325	330	335
Gln Ser Val Tyr His Phe Thr Asn Ser Gly Gln Leu Tyr Ser Gln Ala		
340	345	350
Gln Lys Asn Tyr Pro Tyr Ser Pro Arg Trp Asp Gly Asn Glu Met Ala		
355	360	365
Lys Arg Ala Lys Ala Tyr Phe Lys Thr Phe Val Pro Gln Phe Gln Glu		
370	375	380
Ala Ala Phe Ala Asn Gly Lys Leu		
385	390	

<210> 2199

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2199

Met Gln Thr Ser Phe Ala Ala Lys Glu Pro Gly Gln Ala Arg Leu Leu

1	5	10	15
Pro Gly Leu Ala Arg Asn Arg Leu Arg Arg His Phe Pro Leu Ser Leu			
20	25	30	
Pro Gly Pro Glu Arg Ser Pro Pro Leu Pro Ser Arg Pro Leu Ser Gly			
35	40	45	
Ser Leu Gln Val Ser Ile Gln Lys Arg Leu Arg Ala Ala Gln Arg Trp			
50	55	60	
Arg Pro Gly Gly Ala Glu Ala Arg Gly Gln Met Thr Arg Leu Gly Gly			
65	70	75	80
Lys Gly Gly Gln Gln Phe Pro Pro Gly Gln Lys Ile Ile Ser Lys Asp			
85	90	95	
Ile Leu Ala Leu Thr Ala Leu Ser Val Ala Arg Lys Leu Ser Ser Val			
100	105	110	
Asn Cys			

<210> 2200

<211> 123

<212> PRT

<213> Homo sapiens

<400> 2200

Met Gly Leu Pro Arg Pro Lys Arg Leu Lys Lys Lys Glu Phe Ser Leu

1	5	10	15
Glu Glu Ile Tyr Thr Asn Lys Asn Tyr Lys Ser Pro Pro Ala Asn Arg			
20	25	30	

Cys Leu Glu Thr Ile Phe Glu Glu Pro Lys Glu Arg Asn Gly Thr Leu
 35 40 45
 Ile Ser Ile Ser Gln Gln Lys Arg Lys Arg Val Leu Glu Phe Gln Asp
 50 55 60
 Phe Thr Val Pro Arg Lys Arg Arg Ala Arg Gly Lys Val Lys Val Ala
 65 70 75 80
 Gly Ser Phe Thr Arg Ala Gln Lys Ala Ala Val Gln Ser Arg Glu Leu
 85 90 95
 Asp Ala Leu Leu Ile Gln Lys Leu Met Glu Leu Glu Thr Phe Phe Ala
 100 105 110
 Lys Glu Glu Glu Gln Glu Gln Ser Ser Gly Cys
 115 120

<210> 2201

<211> 364

<212> PRT

<213> Homo sapiens

<400> 2201

Met Cys Phe Arg Val Lys Phe Tyr Pro Ala Asp Pro Ala Ala Leu Lys
 1 5 10 15
 Glu Glu Ile Thr Arg Tyr Leu Val Phe Leu Gln Ile Lys Arg Asp Leu
 20 25 30
 Tyr His Gly Arg Leu Leu Cys Lys Thr Ser Asp Ala Ala Leu Leu Ala
 35 40 45
 Ala Tyr Ile Leu Gln Ala Glu Ile Gly Asp Tyr Asp Ser Gly Lys His
 50 55 60
 Pro Glu Gly Tyr Ser Ser Lys Phe Gln Phe Phe Pro Lys His Ser Glu
 65 70 75 80
 Lys Leu Glu Arg Lys Ile Ala Glu Ile His Lys Thr Glu Leu Ser Gly
 85 90 95
 Gln Thr Pro Ala Thr Ser Glu Leu Asn Phe Leu Arg Lys Ala Gln Thr
 100 105 110
 Leu Glu Thr Tyr Gly Val Asp Pro His Pro Cys Lys Asp Val Ser Gly
 115 120 125

Asn Ala Ala Phe Leu Ala Phe Thr Pro Phe Gly Phe Val Val Leu Gln
 130 135 140
 Gly Asn Lys Arg Val His Phe Ile Lys Trp Asn Glu Val Thr Lys Leu
 145 150 155 160
 Lys Phe Glu Gly Lys Thr Phe Tyr Leu Tyr Glu Lys Lys Ile Ile Leu
 165 170 175
 Thr Tyr Phe Ala Pro Thr Pro Glu Ala Cys Lys His Leu Trp Lys Cys
 180 185 190
 Gly Ile Glu Asn Gln Ala Phe Tyr Lys Leu Glu Lys Ser Ser Gln Val
 195 200 205
 Arg Thr Val Ser Ser Ser Asn Leu Phe Phe Lys Gly Ser Arg Phe Arg
 210 215 220
 Tyr Ser Gly Arg Val Ala Lys Glu Val Met Glu Ser Ser Ala Lys Ile
 225 230 235 240
 Lys Arg Glu Pro Pro Glu Ile His Arg Ala Gly Met Val Pro Ser Arg
 245 250 255
 Ser Cys Pro Ser Ile Thr His Gly Pro Arg Leu Ser Ser Val Pro Arg
 260 265 270
 Thr Arg Arg Arg Ala Val His Ile Ser Ile Met Glu Gly Leu Glu Ser
 275 280 285
 Leu Arg Asp Ser Ala His Ser Thr Pro Val Arg Ser Thr Ser His Gly
 290 295 300
 Asp Thr Phe Leu Pro His Val Arg Ser Ser Arg Thr Asp Ser Asn Glu
 305 310 315 320
 Arg Val Ala Val Ile Ala Asp Glu Ala Tyr Ser Pro Ala Asp Ser Val
 325 330 335
 Leu Pro Thr Pro Val Ala Glu His Ser Leu Glu Leu Met Leu Leu Ser
 340 345 350
 Arg Gln Ile Asn Gly Ala Thr Cys Ser Ile Glu Glu
 355 360

<210> 2202

<211> 446

<212> PRT

<213> Homo sapiens

<400> 2202

Met	Asp	Ser	Ser	Ala	Val	Val	Lys	Gly	Thr	Asn	Ser	His	Val	Pro	Asp
1				5					10					15	
Cys	His	Thr	Lys	Gly	Ser	Ser	Phe	Leu	Gly	Lys	Glu	Leu	Ser	Leu	Asp
			20					25					30		
Glu	Ala	Phe	Pro	Asp	Gln	Gln	Asn	Gly	Ser	Ala	Thr	Asn	Ala	Trp	Asp
			35				40					45			
Gln	Ser	Ser	Cys	Ser	Ser	Pro	Lys	Trp	Glu	Cys	Thr	Glu	Leu	Ile	His
			50			55					60				
Asp	Ile	Pro	Leu	Pro	Glu	His	Arg	Ser	Asn	Thr	Met	Phe	Ile	Ser	Glu
65					70					75					80
Thr	Glu	Arg	Glu	Ile	Met	Thr	Leu	Gly	Gln	Glu	Asn	Gln	Thr	Ser	Ser
					85					90				95	
Val	Ser	Asp	Asp	Arg	Val	Lys	Leu	Ser	Val	Ser	Gly	Ala	Asp	Thr	Ser
			100				105						110		
Val	Ser	Ser	Val	Asp	Gly	Pro	Val	Ser	Gln	Lys	Ala	Val	Gln	Asn	Glu
			115				120						125		
Asn	Ser	Tyr	Gln	Met	Glu	Glu	Asp	Gly	Ser	Leu	Lys	Gln	Ser	Ile	Leu
			130				135					140			
Ser	Ser	Glu	Leu	Leu	Asp	His	Pro	Tyr	Cys	Lys	Ser	Pro	Leu	Glu	Ala
145					150					155					160
Pro	Leu	Val	Cys	Ser	Gly	Leu	Lys	Leu	Glu	Asn	Gln	Val	Gly	Gly	Gly
					165					170				175	
Lys	Asn	Ser	Gln	Lys	Ala	Ser	Pro	Val	Asp	Asp	Glu	Gln	Leu	Ser	Val
			180					185					190		
Cys	Leu	Ser	Gly	Phe	Leu	Asp	Glu	Val	Met	Lys	Lys	Tyr	Gly	Ser	Leu
			195				200					205			
Val	Pro	Leu	Ser	Glu	Lys	Glu	Val	Leu	Gly	Arg	Leu	Lys	Asp	Val	Phe
			210				215					220			
Asn	Glu	Asp	Phe	Ser	Asn	Arg	Lys	Pro	Phe	Ile	Asn	Arg	Glu	Ile	Thr
225					230					235					240
Asn	Tyr	Arg	Ala	Arg	His	Gln	Lys	Cys	Asn	Phe	Arg	Ile	Phe	Tyr	Asn
					245					250				255	
Lys	His	Met	Leu	Asp	Met	Asp	Asp	Leu	Ala	Thr	Leu	Asp	Gly	Gln	Asn
			260					265						270	

Trp Leu Asn Asp Gln Val Ile Asn Met Tyr Gly Glu Leu Ile Met Asp
 275 280 285
 Ala Val Pro Asp Lys Val His Phe Phe Asn Ser Phe Phe His Arg Gln
 290 295 300
 Leu Val Thr Lys Gly Tyr Asn Gly Val Lys Arg Trp Thr Lys Lys Val
 305 310 315 320
 Asp Leu Phe Lys Lys Ser Leu Leu Leu Ile Pro Ile His Leu Glu Val
 325 330 335
 His Trp Ser Leu Ile Thr Val Thr Leu Ser Asn Arg Ile Ile Ser Phe
 340 345 350
 Tyr Asp Ser Gln Gly Ile His Phe Lys Phe Cys Val Glu Asn Ile Arg
 355 360 365
 Lys Tyr Leu Leu Thr Glu Ala Arg Glu Lys Asn Arg Pro Glu Phe Leu
 370 375 380
 Gln Gly Trp Gln Thr Ala Val Thr Lys Cys Ile Pro Gln Gln Lys Asn
 385 390 395 400
 Asp Ser Asp Cys Gly Val Phe Val Leu Gln Tyr Cys Lys Cys Leu Ala
 405 410 415
 Leu Glu Gln Pro Phe Gln Phe Ser Gln Glu Asp Met Pro Arg Val Arg
 420 425 430
 Lys Arg Ile Tyr Lys Glu Leu Cys Glu Cys Arg Leu Met Asp
 435 440 445

<210> 2203

<211> 157

<212> PRT

<213> Homo sapiens

<400> 2203

Met Val Ile Phe Arg Trp Trp Lys Ile Ser Leu Arg Ser Glu Tyr Arg
 1 5 10 15
 Ser Thr Lys Pro Gly Glu Ala Lys Glu Thr His Glu Asp Phe Leu Glu
 20 25 30
 Asn Ser His Leu Gln Gly Gln Thr Ala Leu Ile Phe Gly Ala Arg Ile
 35 40 45

Leu Asp Tyr Val Ile Asn Leu Cys Lys Gly Lys Phe Asp Phe Leu Glu
 50 55 60
 Arg Leu Ser Asp Asp Leu Leu Leu Thr Ile Ile Ser Tyr Leu Asp Leu
 65 70 75 80
 Glu Asp Ile Ala Arg Leu Cys Gln Thr Ser His Arg Phe Ala Lys Leu
 85 90 95
 Cys Met Ser Asp Lys Leu Trp Glu Gln Ile Val Gln Ser Thr Cys Asp
 100 105 110
 Thr Ile Thr Pro Asp Val Arg Ala Leu Ala Glu Asp Thr Gly Trp Arg
 115 120 125
 Gln Leu Phe Phe Thr Asn Lys Leu Gln Leu Gln Arg Gln Leu Arg Lys
 130 135 140
 Arg Lys Gln Lys Tyr Gly Asn Leu Arg Glu Lys Gln Pro
 145 150 155

<210> 2204

<211> 430

<212> PRT

<213> Homo sapiens

<400> 2204

Met Ala Glu Pro Gln Ala Glu Ser Glu Pro Leu Leu Gly Gly Ala Arg
 1 5 10 15
 Gly Gly Gly Gly Asp Trp Pro Ala Gly Leu Thr Thr Tyr Arg Ser Ile
 20 25 30
 Arg Val Gly Pro Gly Ala Ala Ala Arg Trp Asp Leu Cys Ile Asp Gln
 35 40 45
 Ala Val Val Phe Ile Glu Asp Ala Ile Gln Gly Tyr Leu Phe Gly Trp
 50 55 60
 Ala His Phe Gln Lys Asn Leu Trp Leu Leu Gly Tyr Leu Val Val Leu
 65 70 75 80
 Val Val Ser Leu Val Asp Trp Thr Val Ser Leu Ser Leu Val Cys His
 85 90 95
 Glu Pro Leu Arg Ile Arg Arg Leu Leu Arg Pro Phe Phe Leu Leu Gln
 100 105 110

Asn Ser Ser Met Met Lys Lys Thr Leu Lys Cys Ile Arg Trp Ser Leu			
115	120	125	
Pro Glu Met Ala Ser Val Gly Leu Leu Leu Ala Ile His Leu Cys Leu			
130	135	140	
Phe Thr Met Phe Gly Met Leu Leu Phe Ala Gly Gly Lys Gln Asp Asp			
145	150	155	160
Gly Gln Asp Arg Glu Arg Leu Thr Tyr Phe Gln Asn Leu Pro Glu Ser			
165	170	175	
Leu Thr Ser Leu Leu Val Leu Leu Thr Thr Ala Asn Asn Pro Asp Val			
180	185	190	
Met Ile Pro Ala Tyr Ser Lys Asn Arg Ala Tyr Ala Ile Phe Phe Ile			
195	200	205	
Val Phe Thr Val Ile Gly Ser Leu Phe Leu Met Asn Leu Leu Thr Ala			
210	215	220	
Ile Ile Tyr Ser Gln Phe Arg Gly Tyr Leu Met Lys Ser Leu Gln Thr			
225	230	235	240
Ser Leu Phe Arg Arg Arg Leu Gly Thr Arg Ala Ala Phe Glu Val Leu			
245	250	255	
Ser Ser Met Val Gly Glu Gly Gly Ala Phe Pro Gln Ala Val Gly Val			
260	265	270	
Lys Pro Gln Asn Leu Leu Gln Val Leu Gln Lys Val Gln Leu Asp Ser			
275	280	285	
Ser His Lys Gln Ala Met Met Glu Lys Val Arg Ser Tyr Gly Ser Val			
290	295	300	
Leu Leu Ser Ala Glu Glu Phe Gln Lys Leu Phe Asn Glu Leu Asp Arg			
305	310	315	320
Ser Val Val Lys Glu His Pro Pro Arg Pro Glu Tyr Gln Ser Pro Phe			
325	330	335	
Leu Gln Ser Ala Gln Phe Leu Phe Gly His Tyr Tyr Phe Asp Tyr Leu			
340	345	350	
Gly Asn Leu Ile Ala Leu Ala Asn Leu Val Ser Ile Cys Val Phe Leu			
355	360	365	
Val Leu Asp Ala Asp Val Leu Pro Ala Glu Arg Asp Asp Phe Ile Leu			
370	375	380	
Gly Ile Leu Asn Cys Val Phe Ile Val Tyr Tyr Leu Leu Glu Met Leu			
385	390	395	400

Leu Lys Val Phe Ala Leu Gly Leu Arg Gly Tyr Leu Ser Tyr Pro Ser
 405 410 415
 Asn Val Phe Asp Gly Leu Leu Thr Val Val Leu Leu Val Lys
 420 425 430

<210> 2205

<211> 129

<212> PRT

<213> Homo sapiens

<400> 2205

Met Pro Ser Phe Leu Pro Ile His Tyr Cys Ser Pro Asn Val Leu Cys
 1 5 10 15
 Val Trp Thr Ala Ile Thr Ser Ser Thr Phe Ser Pro Tyr Tyr Leu Leu
 20 25 30
 Ile Leu Gln Asn Ser Ala His Pro Gln Ile Pro Leu Arg Ser Pro Ser
 35 40 45
 Gly Cys Ser Ser Pro Ser Asn Leu Asn Lys Met Ser Phe Leu Gly Ala
 50 55 60
 Leu Ile Ala Phe Arg Leu Asp Thr Gly Pro Gln Ser Glu Val Ser Ala
 65 70 75 80
 Trp Thr Ala Ser Pro Ser Ser Gly Asn Ser Leu Glu Met Gln Ile Met
 85 90 95
 Arg Pro Tyr Pro Arg Pro Pro Glu Thr Glu Thr Leu Gly Val Gly Pro
 100 105 110
 Thr Thr Cys Val Leu Thr Ser Pro Ala Gly Asp Cys Asp Glu His Lys
 115 120 125
 Val

<210> 2206

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2206

Met Ala Ala Pro Cys Arg Cys Gly Trp Thr Trp Val Glu Leu Val Arg
 1 5 10 15
 Glu Ala Arg Cys Leu Asp Leu Leu Met Val Thr Gly Leu Ala Val Lys
 20 25 30
 Ala His Leu Gly Ser Val Ser Thr Pro Trp Ser Ser His Val Ser Val
 35 40 45
 Thr Phe Gln His Trp Pro Asp Gly Gly Asn Leu Leu Arg Ala His Ser
 50 55 60
 Pro Ala Pro Trp His Ser Arg Ser Gln Leu Ser Leu Ile Arg Thr Arg
 65 70 75 80
 Cys Pro Leu Val Arg Leu Leu Val Ile Gly Phe Pro Ser Ser Pro Asn
 85 90 95
 Val Pro Val Ile Ser His
 100

<210> 2207

<211> 555

<212> PRT

<213> Homo sapiens

<400> 2207

Met Ile Val Thr Gly Gly Leu Ala Trp Trp Asn Asp Phe Met Val Leu
 1 5 10 15
 Ala Cys Tyr Asn Ile Asn Asp Arg Gln Glu Glu Leu Arg Val Tyr Leu
 20 25 30
 Arg Thr Ser Asn Leu Asp Asn Ala Phe Ala His Val Thr Lys Ala Gln
 35 40 45
 Ala Glu Thr Leu Leu Leu Ser Val Phe Gln Asp Met Val Ile Val Phe
 50 55 60
 Arg Ala Asp Cys Ser Ile Cys Leu Tyr Ser Ile Glu Arg Lys Ser Asp
 65 70 75 80
 Gly Pro Asn Thr Thr Ala Gly Ile Gln Val Leu Gln Glu Val Ser Met
 85 90 95

Ser Arg Tyr Ile Pro His Pro Phe Leu Val Val Ser Val Thr Leu Thr
 100 105 110
 Ser Val Ser Thr Glu Asn Gly Ile Thr Leu Lys Met Pro Gln Gln Ala
 115 120 125
 Arg Gly Ala Glu Ser Ile Met Leu Asn Leu Ala Gly Gln Leu Ile Met
 130 135 140
 Met Gln Arg Asp Arg Ser Gly Pro Gln Ile Arg Glu Lys Asp Ser Asn
 145 150 155 160
 Pro Asn Asn Gln Arg Lys Leu Leu Pro Phe Cys Pro Pro Val Val Leu
 165 170 175
 Ala Gln Ser Val Glu Asn Val Trp Thr Thr Cys Arg Ala Asn Lys Gln
 180 185 190
 Lys Arg His Leu Leu Glu Ala Leu Trp Leu Ser Cys Gly Gly Ala Gly
 195 200 205
 Met Lys Val Trp Leu Pro Leu Phe Pro Arg Asp His Arg Lys Pro His
 210 215 220
 Ser Phe Leu Ser Gln Arg Ile Met Leu Pro Phe His Ile Asn Ile Tyr
 225 230 235 240
 Pro Leu Ala Val Leu Phe Glu Asp Ala Leu Val Leu Gly Ala Val Asn
 245 250 255
 Asp Thr Leu Leu Tyr Asp Ser Leu Tyr Thr Arg Asn Asn Ala Arg Glu
 260 265 270
 Gln Leu Glu Val Leu Phe Pro Phe Cys Val Val Glu Arg Thr Ser Gln
 275 280 285
 Ile Tyr Leu His His Ile Leu Arg Gln Leu Leu Val Arg Asn Leu Gly
 290 295 300
 Glu Gln Ala Leu Leu Leu Ala Gln Ser Cys Ala Thr Leu Pro Tyr Phe
 305 310 315 320
 Pro His Val Leu Glu Leu Met Leu His Glu Val Leu Glu Glu Glu Ala
 325 330 335
 Thr Ser Arg Glu Pro Ile Pro Asp Pro Leu Leu Pro Thr Val Ala Lys
 340 345 350
 Phe Ile Thr Glu Phe Pro Leu Phe Leu Gln Thr Val Val His Cys Ala
 355 360 365
 Arg Lys Thr Glu Tyr Ala Leu Trp Asn Tyr Leu Phe Ala Ala Val Gly
 370 375 380

Asn Pro Lys Asp Leu Phe Glu Glu Cys Leu Met Ala Gln Asp Leu Asp
 385 390 395 400
 Thr Ala Ala Ser Tyr Leu Ile Ile Leu Gln Asn Met Glu Val Pro Ala
 405 410 415
 Ile Ser Arg Gln His Ala Thr Leu Leu Phe Asn Thr Ala Leu Glu Gln
 420 425 430
 Gly Lys Trp Asp Leu Cys Arg His Met Ile Arg Phe Leu Lys Ala Ile
 435 440 445
 Gly Ser Gly Glu Ser Glu Thr Pro Pro Ser Thr Pro Thr Ala Gln Glu
 450 455 460
 Pro Ser Ser Ser Gly Gly Phe Glu Phe Phe Arg Asn Arg Ser Ile Ser
 465 470 475 480
 Leu Ser Gln Ser Ala Glu Asn Val Pro Ala Ser Lys Phe Ser Leu Gln
 485 490 495
 Lys Thr Leu Ser Met Pro Ser Gly Pro Ser Gly Lys Arg Trp Ser Lys
 500 505 510
 Asp Ser Asp Cys Ala Glu Asn Met Tyr Ile Asp Met Met Leu Trp Arg
 515 520 525
 His Ala Arg Arg Leu Leu Glu Asp Val Arg Leu Lys Asp Leu Gly Cys
 530 535 540
 Phe Ala Ala Gln Leu Gly Phe Glu Leu Ile Ser
 545 550 555

<210> 2208

<211> 1235

<212> PRT

<213> Homo sapiens

<400> 2208

Met Asp His Thr Ala Ser Gln Asn Ala Gln Asp Leu Ile Gly Ile Pro
 1 5 10 15
 His Leu Gly Val Ser Gly Ser Ser Thr Lys Trp His Ser Glu Leu Ser
 20 25 30
 Pro Thr Glu Gly Pro His Ser Ala Gly Ser Ser Thr Pro Gly Phe Leu
 35 40 45

Ser Pro Met Ala Glu Leu Ser His Pro Ser Pro Pro Pro Pro Ala Leu
 50 55 60
 Gly Ser Leu Leu Gln Leu Pro Asp Gly Ser Pro Ser Trp Ser Met Leu
 65 70 75 80
 Glu Val Ala Ser Gly Pro Ala Ser Thr Gln Gln Ile Lys Ala Gly Val
 85 90 95
 Pro Gly Arg Val His Asn Gly Val Ser Leu Pro Thr Phe Lys Asn Thr
 100 105 110
 Glu Thr Ala Thr His Glu Ala Glu Pro Pro Leu Phe Gln Thr Ala Glu
 115 120 125
 Ser Gly Ala Ile Glu Met Thr Ser Arg Lys Leu Ala Ser Ala Thr Ala
 130 135 140
 Asn Asp Ser Ala Asn Pro Leu His Leu Ser Ala Ala Pro Glu Asn Ser
 145 150 155 160
 Arg Gly Pro Ala Leu Ser Ala Glu His Thr Ser Ser Leu Val Pro Ser
 165 170 175
 Leu His Ile Thr Thr Leu Gly Gln Glu Gln Ala Ile Leu Ser Gly Ala
 180 185 190
 Val Pro Ala Ser Pro Ser Thr Gly Thr Ala Asp Phe Pro Ser Ile Leu
 195 200 205
 Thr Phe Leu Gln Pro Thr Glu Asn His Ala Ser Pro Ser Pro Val Pro
 210 215 220
 Glu Met Pro Thr Leu Pro Ala Glu Gly Ser Asp Gly Ser Pro Pro Ala
 225 230 235 240
 Thr Arg Asp Leu Leu Leu Ser Ser Lys Val Pro Asn Leu Leu Ser Thr
 245 250 255
 Ser Trp Thr Phe Pro Arg Trp Lys Lys Asp Ser Val Thr Ala Ile Leu
 260 265 270
 Gly Lys Asn Glu Glu Ala Asn Val Thr Ile Pro Leu Gln Ala Phe Pro
 275 280 285
 Arg Lys Glu Val Leu Ser Leu His Thr Val Asn Gly Phe Val Ser Asp
 290 295 300
 Phe Ser Thr Gly Ser Val Ser Ser Pro Ile Ile Thr Ala Pro Arg Thr
 305 310 315 320
 Asn Pro Leu Pro Ser Gly Pro Pro Leu Pro Ser Ile Leu Ser Ile Gln
 325 330 335

Ala Thr Gln Thr Val Phe Pro Ser Leu Gly Phe Ser Ser Thr Lys Pro
 340 345 350
 Glu Ala Tyr Ala Ala Ala Val Asp His Ser Gly Leu Pro Ala Ser Ala
 355 360 365
 Ser Lys Gln Val Arg Ala Ser Pro Ser Ser Met Asp Val Tyr Asp Ser
 370 375 380
 Leu Thr Ile Gly Asp Met Lys Lys Pro Ala Thr Thr Asp Val Phe Trp
 385 390 395 400
 Ser Ser Leu Ser Ala Glu Thr Gly Ser Leu Ser Thr Glu Ser Ile Ile
 405 410 415
 Ser Gly Leu Gln Gln Gln Thr Asn Tyr Asp Leu Asn Gly His Thr Ile
 420 425 430
 Ser Thr Thr Ser Trp Glu Thr His Leu Ala Pro Thr Ala Pro Pro Asn
 435 440 445
 Gly Leu Thr Ser Ala Ala Asp Ala Ile Lys Ser Gln Asp Phe Lys Asp
 450 455 460
 Thr Ala Gly His Ser Val Thr Ala Glu Gly Phe Ser Ile Gln Asp Leu
 465 470 475 480
 Val Leu Gly Thr Ser Ile Glu Gln Pro Val Gln Gln Ser Asp Met Thr
 485 490 495
 Met Val Gly Ser His Ile Asp Leu Trp Pro Thr Ser Asn Asn Asn His
 500 505 510
 Ser Arg Asp Phe Gln Thr Ala Glu Val Ala Tyr Tyr Ser Pro Thr Thr
 515 520 525
 Arg His Ser Val Ser His Pro Gln Leu Gln Leu Pro Asn Gln Pro Ala
 530 535 540
 His Pro Leu Leu Leu Thr Ser Pro Gly Pro Thr Ser Thr Gly Ser Leu
 545 550 555 560
 Gln Glu Met Leu Ser Asp Gly Thr Asp Thr Gly Ser Glu Ile Ser Ser
 565 570 575
 Asp Ile Asn Ser Ser Pro Glu Arg Asn Ala Ser Thr Pro Phe Gln Asn
 580 585 590
 Ile Leu Gly Tyr His Ser Ala Ala Glu Ser Ser Ile Ser Thr Ser Val
 595 600 605
 Phe Pro Arg Thr Ser Ser Arg Val Leu Arg Ala Ser Gln His Pro Lys
 610 615 620

Lys Trp Thr Gly Ala Ala Thr Asn Ala Ala Asp Thr Val Ser Ser Lys
 625 630 635 640
 Val Gln Pro Thr Ala Ala Ala Ala Val Thr Leu Phe Leu Arg Lys Ser
 645 650 655
 Ser Pro Pro Ala Leu Ser Ala Ala Leu Val Ala Lys Gly Thr Ser Ser
 660 665 670
 Ser Pro Leu Ala Val Ala Ser Gly Pro Ala Lys Ser Ser Ser Met Thr
 675 680 685
 Thr Leu Ala Lys Asn Val Thr Asn Lys Ala Ala Ser Gly Pro Lys Arg
 690 695 700
 Thr Pro Gly Ala Val His Thr Ala Phe Pro Phe Thr Pro Thr Tyr Met
 705 710 715 720
 Tyr Ala Arg Thr Gly His Thr Thr Ser Thr His Thr Ala Met Gln Gly
 725 730 735
 Asn Met Asp Thr Ala Ser Gly Leu Leu Ser Thr Thr Tyr Leu Pro Arg
 740 745 750
 Lys Pro Gln Ala Met His Thr Gly Leu Pro Asn Pro Thr Asn Leu Glu
 755 760 765
 Met Pro Arg Ala Ser Thr Pro Arg Pro Leu Thr Val Thr Ala Ala Leu
 770 775 780

 Thr Ser Ile Thr Ala Ser Val Lys Ala Thr Arg Leu Pro Pro Leu Arg
 785 790 795 800
 Ala Glu Asn Thr Asp Ala Val Leu Pro Ala Ala Ser Ala Ala Val Val
 805 810 815
 Thr Thr Gly Lys Met Ala Ser Asn Leu Glu Cys Gln Met Ser Ser Lys
 820 825 830
 Leu Leu Val Lys Thr Val Leu Phe Leu Thr Gln Arg Arg Val Gln Ile
 835 840 845
 Ser Glu Ser Leu Lys Phe Ser Ile Ala Lys Gly Leu Thr Gln Ala Leu
 850 855 860
 Arg Lys Ala Phe His Gln Asn Asp Val Ser Ala His Val Asp Ile Leu
 865 870 875 880
 Glu Tyr Ser His Asn Val Thr Val Gly Tyr Tyr Ala Thr Lys Gly Lys
 885 890 895
 Leu Val Tyr Leu Pro Ala Val Val Ile Glu Met Leu Gly Val Tyr Gly

900	905	910
Val Ser Asn Val Thr Ala Asp Leu Lys Gln His Thr Pro His Leu Gln		
915	920	925
Ser Val Ala Val Leu Ala Ser Pro Trp Asn Pro Gln Pro Ala Gly Tyr		
930	935	940
Phe Gln Leu Lys Thr Val Leu Gln Phe Val Ser Gln Ala Asp Asn Ile		
945	950	955
Gln Ser Cys Lys Phe Ala Gln Thr Met Glu Gln Arg Leu Gln Lys Ala		
965	970	975
Phe Gln Asp Ala Glu Arg Lys Val Leu Asn Thr Lys Ser Asn Leu Thr		
980	985	990
Ile Gln Ile Val Ser Thr Ser Asn Ala Ser Gln Ala Val Thr Leu Val		
995	1000	1005
Tyr Val Val Gly Asn Gln Ser Thr Phe Leu Asn Gly Thr Val Ala Ser		
1010	1015	1020
Ser Leu Leu Ser Gln Leu Ser Ala Glu Leu Val Gly Phe Tyr Leu Thr		
1025	1030	1035
Tyr Pro Pro Leu Thr Ile Ala Glu Pro Leu Glu Tyr Pro Asn Leu Asp		
1045	1050	1055
Ile Ser Glu Thr Thr Arg Asp Tyr Trp Val Ile Thr Val Leu Gln Gly		
1060	1065	1070
Val Asp Asn Ser Leu Val Gly Leu His Asn Gln Ser Phe Ala Arg Val		
1075	1080	1085
Met Glu Gln Arg Leu Ala Gln Leu Phe Met Met Ser Gln Gln Gln Gly		
1090	1095	1100
Arg Arg Phe Lys Arg Ala Thr Thr Leu Gly Ser Tyr Thr Val Gln Met		
1105	1110	1115
Val Lys Met Gln Arg Val Pro Gly Pro Lys Asp Pro Ala Glu Leu Thr		
1125	1130	1135
Tyr Tyr Thr Leu Tyr Asn Gly Lys Pro Leu Leu Gly Thr Ala Ala Ala		
1140	1145	1150
Lys Ile Leu Ser Thr Ile Asp Ser Gln Arg Met Ala Leu Thr Leu His		
1155	1160	1165
His Val Val Leu Leu Gln Ala Asp Pro Val Val Lys Asn Pro Pro Asn		
1170	1175	1180
Asn Leu Trp Ile Ile Ala Ala Val Leu Ala Pro Ile Ala Val Val Thr		

1185 1190 1195 1200
Val Ile Ile Ile Ile Ile Thr Ala Val Leu Cys Arg Lys Asn Lys Asn
 1205 1210 1215
Asp Phe Lys Pro Asp Thr Met Ile Asn Leu Pro Gln Arg Ala Lys Gln
 1220 1225 1230
Val Ala Gln
 1235

<210> 2209

<211> 155

<212> PRT

<213> Homo sapiens

<400> 2209

Met	Ser	Ile	Thr	Ser	Thr	Val	Lys	Ala	Ser	Leu	Cys	Ser	Gly	Val	Val
1				5					10					15	
Ser	His	Phe	Pro	Lys	Ile	Asn	Thr	Val	Asn	Thr	Asp	Glu	His	Cys	Cys
			20					25					30		
Leu	Tyr	Val	Met	Ser	Glu	Ile	Pro	His	Pro	Phe	Met	His	Lys	Tyr	Val
			35				40					45			
Cys	Ile	Tyr	Ala	Tyr	Thr	Phe	Thr	His	Ile	Tyr	Arg	His	Leu	Phe	Ile
	50					55					60				
Tyr	Thr	Cys	Lys	Tyr	Val	Tyr	Tyr	Ile	His	Val	Tyr	Cys	Ile	Gly	Leu
65					70					75				80	
Glu	Lys	Ser	Lys	His	Phe	Lys	Ser	Met	Leu	Ile	Ile	Cys	Ile	Cys	Leu
				85					90					95	
Val	Asn	Thr	Ser	Arg	Gln	Arg	Gln	Val	Lys	Gln	Arg	Ser	Ser	Ile	Tyr
			100					105					110		
Phe	Phe	Val	Ser	Thr	Ile	Ala	Arg	Leu	Arg	Ser	Val	Met	Ala	Leu	Leu
			115				120					125			
Gln	Leu	His	Leu	Ala	Phe	Ser	Ile	Thr	Cys	Val	Ile	Lys	Phe	Met	Thr
	130					135					140				
Lys	Ser	Ser	Cys	Asn	Cys	Leu	Cys	Cys	Leu	Pro					
145					150				155						

<210> 2210

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2210

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Met Thr Asp Leu Trp Thr Arg Gly Phe Pro Ala Ser Pro Leu Ile Pro
  1              5              10              15
Ala Asp Leu Trp Ala Ser Phe His Gly Tyr Arg Arg Lys Ser Lys Val
      20              25              30
Ser Leu Gln Ala Ala Val Pro Leu Gly Ser Gln Leu Cys Pro Ser Phe
      35              40              45
Ser Ser Pro Gln Gly Gly Cys Pro Ile Pro Glu Pro Pro Trp Ala Pro
      50              55              60
Ala Ser Ala Gly Pro Tyr Val Cys Gly Leu Gly Phe Cys Pro Pro Val
      65              70              75              80
Leu Val Leu Ile Cys Ser Leu Trp Phe Cys Ser Phe Phe His Pro Pro
      85              90              95
Thr His Leu Gly Pro Ser Ser His
      100

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<210> 2211

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2211

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Met Ser Ser Asp Gln Ala Gln His Cys His Gln Asp Asp Lys Gly Gln
  1              5              10              15
Gly Val Arg Ser Gln Pro Pro Pro Thr Phe Leu Ser Ser Gly Leu Arg
      20              25              30
Arg Arg Lys Gly Pro Thr Lys Thr Pro Glu Pro Glu Ser Ser Glu Ala
      35              40              45
Pro Gln Asp Pro Leu Asn Trp Phe Gly Ile Leu Val Pro His Ser Leu

```

50 55 60
 Arg Gln Ala Gln Ala Ser Phe Arg Asp Gly Glu Trp Thr Val Leu Phe
 65 70 75 80
 Gly Ser Val Ala Leu Arg Pro Ser Ile His Arg Glu His Leu Ser Thr
 85 90 95
 Ala Ala Met Ala Gly Val Ser Leu
 100

<210> 2212

<211> 120

<212> PRT

<213> Homo sapiens

<400> 2212

Met Arg Arg Ala Gly Ser Thr Arg Cys Ser Leu Ala Pro Gly Arg Lys
 1 5 10 15
 Ala Glu Glu Pro Gly Asn His Val Pro Ser Trp Lys Glu Ala Leu Arg
 20 25 30
 Thr Leu Leu Pro Arg Asn Pro Glu Gln Arg Leu Ala Gly Leu Gln Glu
 35 40 45
 Gln Ser Arg Val Arg Ala Val Ser Trp Gln Arg Ile Lys Tyr Pro Gly
 50 55 60
 His Ile Glu Glu Thr Cys Glu Asp Ser Asn Gly Glu Gln Phe Glu Ser
 65 70 75 80
 Glu Lys Pro Val Leu Glu Ala Arg Lys Phe Lys Ile Lys Val Leu Ala
 85 90 95
 Ser Ser Val Ser Ala Glu Asp Leu Ile Ser Leu Leu Ser Arg Trp His
 100 105 110
 Leu Val Ala Leu Pro Ser Arg Glu
 115 120

<210> 2213

<211> 106

<212> PRT

<213> Homo sapiens

<400> 2213

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Met Ser His His Ala Arg Leu Ser Leu Leu Asn Phe Arg Thr Ile Thr
  1             5             10             15
Val Tyr Phe Tyr Phe Leu Asn Tyr His Ile Val Lys Leu Ala Leu Trp
          20             25             30
Leu Cys Ser Phe Met Cys Phe Asp Val Cys Ile Asp Gly Cys His Asn
          35             40             45
Gln Glu Arg Glu His Ser Pro Lys Pro Arg Asp Val His Gly Ala Ile
          50             55             60
Leu His Ser Met Phe Leu Gly Ser His Ser Ala Pro Ser Pro Lys His
          65             70             75             80
Gly Ala Pro Ala Cys Arg Cys His Arg Arg Gln His His Gly Leu Leu
          85             90             95
Asn Thr Val Arg His Ser Ser Ser Lys Gly
          100             105

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<210> 2214

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2214

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Met Tyr Ser Leu Asn Gln Ser Phe Phe Cys Pro Gln Leu Glu Ile Phe
  1             5             10             15
Leu Ala Gln Arg Ala Val Glu Leu Ser Glu Glu Ala Asp Val Leu Ser
          20             25             30
Val Ser Gln Phe Gln Leu Ala Pro Ala Ile Leu Gln Gly Gln Thr Lys
          35             40             45
Glu Lys Met Val Thr Met Val Ser Val Leu Glu Asp Leu Ile Gly Lys
          50             55             60
Leu Thr Ser Leu Gln Leu Gln His Leu Phe Met Ile Leu Ala Ser Pro
          65             70             75             80
Arg Ser Gly Phe Pro Leu Met Gln Gly Ser Ala Ile Leu Ser Ser Ser

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85 90 95
 Ala Ser Leu Tyr Ser Ser Ser Cys Ser Met Thr Pro
 100 105

<210> 2215

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2215

Met His His Ser Trp Leu Ile His Pro Leu Leu Asp Gly His Leu Ala
 1 5 10 15
 Cys Phe Gln Val Phe Ala Val Ser Asp Thr Ala Ser Ile Asp Cys Phe
 20 25 30
 Leu Ser Val Ser Glu Pro Leu Ser Arg Leu Leu Gly Lys Gln Cys Pro
 35 40 45
 Ser Phe Phe Pro Ser Phe Trp Ile Gly Phe Leu Pro Ala Glu Val Leu
 50 55 60
 Gly Val Trp Phe Gly His Gly Cys Gly Ser Thr Trp Ser Leu Ser Ser
 65 70 75 80
 Gly Leu Ile Gln Arg Gly Arg Ser Gly Glu Glu Gly Ser Val Gln Gly
 85 90 95
 Lys Ser Arg Leu Gly His Gly Val Ser Leu Val Gly Gln
 100 105

<210> 2216

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2216

Met Glu Ile Gln Met Ser Lys Ser Ser Gln Asn Ser Lys Leu Leu Ile
 1 5 10 15
 Pro Val Leu Arg Leu Cys Ser Tyr Ser Asp Glu Ser Val Val Leu Val

20 25 30
 Arg Gly Leu Ala Arg Arg Pro Val Gly Trp Asn Gly Ala Arg Lys Val
 35 40 45
 Asn His Lys Leu Leu Val His Arg Gly Thr Arg Ile Ile Gln Gly Gly
 50 55 60
 Gly Ile Val Leu Ser Thr Gly Gly Ser Gly Asn Arg Val Phe Thr Gly
 65 70 75 80
 Lys Met Val Asn Val Asn Pro Cys Ile Ile Cys Lys Lys Leu Phe Glu
 85 90 95
 Thr Gly His Lys Asn
 100

<210> 2217

<211> 809

<212> PRT

<213> Homo sapiens

<400> 2217

Met Leu Tyr Pro Ala Leu Ala Lys Glu Ser Gly Tyr Ile Ala Pro Gln
 1 5 10 15
 Gly Ala Cys Asn Lys Met Ala Thr Ile Asp Glu Asn Gly Asn Gln Asn
 20 25 30
 Gly Ser Gly Arg Pro Gly Phe Ala Phe Cys Gln Pro Leu Glu His Asp
 35 40 45
 Leu Leu Ser Pro Val Glu Lys Lys Pro Glu Ala Thr Ala Lys Tyr Val
 50 55 60
 Pro Ser Lys Val His Phe Cys Ser Val Pro Glu Asn Glu Glu Asp Ala
 65 70 75 80
 Ser Leu Lys Arg His Leu Thr Pro Pro Gln Gly Asn Ser Pro His Ser
 85 90 95
 Asn Glu Arg Lys Ser Thr His Ser Asn Lys Pro Ser Ser His Pro His
 100 105 110
 Ser Leu Lys Cys Pro Gln Ala Gln Ala Trp Gln Ala Gly Glu Asp Lys
 115 120 125
 Arg Ser Ser Arg Leu Ser Glu Pro Trp Glu Gly Asp Phe Gln Glu Asp

130	135	140	
His Asn Ala Asn Leu Trp Arg Arg Leu Glu Arg Glu Gly Leu Gly Gln			
145	150	155	160
Ser Leu Ser Gly Asn Phe Gly Lys Thr Lys Ser Ala Phe Ser Ser Leu			
165	170	175	
Gln Asn Ile Pro Glu Ser Leu Arg Arg His Ser Ser Leu Glu Leu Gly			
180	185	190	
Arg Gly Thr Gln Glu Gly Tyr Pro Gly Gly Arg Pro Thr Cys Ala Val			
195	200	205	
Asn Thr Lys Ala Glu Asp Pro Gly Arg Lys Ala Ala Pro Asp Leu Gly			
210	215	220	
Ser His Leu Asp Arg Gln Val Ser Tyr Pro Arg Pro Glu Gly Arg Thr			
225	230	235	240
Gly Ala Ser Ala Ser Phe Asn Ser Thr Asp Pro Ser Pro Glu Glu Pro			
245	250	255	
Pro Ala Pro Ser His Pro His Thr Ser Ser Leu Gly Arg Arg Gly Pro			
260	265	270	
Gly Pro Gly Ser Ala Ser Ala Leu Gln Gly Phe Gln Tyr Gly Lys Pro			
275	280	285	
His Cys Ser Val Leu Glu Lys Val Ser Lys Phe Glu Gln Arg Glu Gln			
290	295	300	
Gly Ser Gln Arg Pro Ser Val Gly Gly Ser Gly Phe Gly His Asn Tyr			
305	310	315	320
Arg Pro His Arg Thr Val Ser Thr Ser Ser Thr Ser Gly Asn Asp Phe			
325	330	335	
Glu Glu Thr Lys Ala His Ile Arg Phe Ser Glu Ser Ala Glu Pro Leu			
340	345	350	
Gly Asn Gly Glu Gln His Phe Lys Asn Gly Glu Leu Lys Leu Glu Glu			
355	360	365	
Ala Ser Arg Gln Pro Cys Gly Gln Gln Leu Ser Gly Gly Ala Ser Asp			
370	375	380	
Ser Gly Arg Gly Pro Gln Arg Pro Asp Ala Arg Leu Leu Arg Ser Gln			
385	390	395	400
Ser Thr Phe Gln Leu Ser Ser Glu Pro Glu Arg Glu Pro Glu Trp Arg			
405	410	415	
Asp Arg Pro Gly Ser Pro Glu Ser Pro Leu Leu Asp Ala Pro Phe Ser			

420	425	430
Arg Ala Tyr Arg Asn Ser Ile Lys Asp Ala Gln Ser Arg Val Leu Gly		
435	440	445
Ala Thr Ser Phe Arg Arg Arg Asp Leu Glu Leu Gly Ala Pro Val Ala		
450	455	460
Ser Arg Ser Trp Arg Pro Arg Pro Ser Ser Ala His Val Gly Leu Arg		
465	470	475
Ser Pro Glu Ala Ser Ala Ser Ala Ser Pro His Thr Pro Arg Glu Trp		
485	490	495
His Ser Val Thr Pro Ala Glu Gly Asp Leu Ala Arg Pro Val Pro Pro		
500	505	510
Ala Ala Arg Arg Gly Ala Arg Arg Arg Leu Thr Pro Glu Gln Lys Lys		
515	520	525
Arg Ser Tyr Ser Glu Pro Glu Lys Met Asn Glu Val Gly Ile Val Glu		
530	535	540
Glu Ala Glu Pro Ala Pro Leu Gly Pro Gln Arg Asn Gly Met Arg Phe		
545	550	555
Pro Glu Ser Ser Val Ala Asp Arg Arg Arg Leu Phe Glu Arg Asp Gly		
565	570	575
Lys Ala Cys Ser Thr Leu Ser Leu Ser Gly Pro Glu Leu Lys Gln Phe		
580	585	590
Gln Gln Ser Ala Leu Ala Asp Tyr Ile Gln Arg Lys Thr Gly Lys Arg		
595	600	605
Pro Thr Ser Ala Ala Gly Cys Ser Leu Gln Glu Pro Gly Pro Leu Arg		
610	615	620
Glu Arg Ala Gln Ser Ala Tyr Leu Gln Pro Gly Pro Ala Ala Leu Glu		
625	630	635
Gly Ser Gly Leu Ala Ser Ala Ser Ser Leu Ser Ser Leu Arg Glu Pro		
645	650	655
Ser Leu Gln Pro Arg Arg Glu Ala Thr Leu Leu Pro Ala Thr Val Ala		
660	665	670
Glu Thr Gln Gln Ala Pro Arg Asp Arg Ser Ser Ser Phe Ala Gly Gly		
675	680	685
Arg Arg Leu Gly Glu Arg Arg Arg Gly Asp Leu Leu Ser Gly Ala Asn		
690	695	700
Gly Gly Thr Arg Gly Thr Gln Arg Gly Asp Glu Thr Pro Arg Glu Pro		

705 710 715 720
 Ser Ser Trp Gly Ala Arg Ala Gly Lys Ser Met Ser Ala Glu Asp Leu
 725 730 735
 Leu Glu Arg Ser Asp Val Leu Ala Gly Pro Val His Val Arg Ser Arg
 740 745 750
 Ser Ser Pro Ala Thr Ala Asp Lys Arg Gln Val Arg Ala Thr Ser Lys
 755 760 765
 Ser Trp Pro Arg Thr Val Pro Ser Ser Leu Glu Ala Leu Val Gly Leu
 770 775 780
 Pro Asn Pro Pro His Ser His Pro Leu Ser Gln Phe Ser Phe Pro Cys
 785 790 795 800
 Asp Tyr Arg Lys Val Ala Phe Val Phe
 805

<210> 2218

<211> 138

<212> PRT

<213> Homo sapiens

<400> 2218

Met Val Ile Phe Gln Phe Ile Ser Cys Asp Leu Ser Ala Val Phe Asn
 1 5 10 15
 Val Leu Asn Phe Phe Ile Phe Arg Asn Arg Val Ser Leu Cys Cys Pro
 20 25 30
 Cys Trp Ser Gln Thr Pro Gly Leu Lys Cys Ser Cys Leu Gly Leu Pro
 35 40 45
 Lys His Trp Asp Tyr Arg His Glu Pro Leu Leu Pro Gly Leu Cys Leu
 50 55 60
 Met Phe Leu Thr Gly Leu Leu Leu Asn Ser Phe Asn Leu Ala Ser Leu
 65 70 75 80
 Ile Pro Leu Ala Pro Val Ser Leu Leu Pro Pro Arg Glu Leu Leu Cys
 85 90 95
 Pro Pro Leu Phe Pro Asn Tyr Gly His Val Ile Lys Ala Phe Phe Pro
 100 105 110
 Arg Pro Leu Leu Pro Arg Cys Asp Tyr Leu His Ser Ser Asp Leu Ile

115 120 125
 Tyr Thr Pro Asp Leu Leu Gln Thr Val Phe
 130 135

<210> 2219

<211> 179

<212> PRT

<213> Homo sapiens

<400> 2219

Met Leu Asn Trp Ile Ile Arg Leu Gln Ala Ile Leu Glu Ile Ile Thr
 1 5 10 15
 Asn Glu Thr Gly Arg Ala Leu Thr Val Leu Ala Trp Gln Glu Thr Gln
 20 25 30
 Met Arg Asn Ala Ile Tyr Gln Asn Arg Leu Ala Leu Asp Tyr Leu Leu
 35 40 45
 Val Ala Glu Gly Gly Val Cys Gly Lys Phe Asn Leu Thr Asn Cys Cys
 50 55 60
 Leu Gln Ile Asn Asp Gln Gly Gln Val Val Lys Asn Ile Val Arg Asp
 65 70 75 80
 Met Thr Lys Val Ala His Val Pro Val Gln Val Trp His Glu Phe Asn
 85 90 95
 Pro Glu Ser Leu Phe Glu Lys Trp Phe Pro Ala Ile Ala Gly Phe Lys
 100 105 110
 Thr Leu Ile Val Gly Gly Leu Leu Val Ile Gly Ala Cys Leu Leu Leu
 115 120 125
 Pro Cys Val Leu Pro Leu Leu Phe Gln Met Ile Lys Gly Phe Val Ala
 130 135 140
 Thr Leu Val His Gln Lys Thr Ser Ala His Val Cys Tyr Ile Asn Gln
 145 150 155 160
 Tyr Arg Ser Ile Ser Pro Ile Asp Ser Lys Ser Lys Asp Glu Ser Glu
 165 170 175
 Asn Ser His

<210> 2220

<211> 181

<212> PRT

<213> Homo sapiens

<400> 2220

Met Gln Arg Thr Gly Phe Gln Lys Pro Gln Lys Leu Glu Glu Pro His
 1 5 10 15
 Arg His Ala Leu Cys Pro Pro Thr Val Ser Gly Ala Ser Ser Asn Pro
 20 25 30
 Cys Ser Glu Thr Tyr His Gly Lys Phe Ala Asn Ser Glu Val Glu Val
 35 40 45
 Lys Ser Ile Val Asp Phe Val Lys Asp His Gly Asn Ile Lys Ala Phe
 50 55 60
 Ile Ser Ile His Ser Tyr Ser Gln Leu Leu Met Tyr Pro Tyr Gly Tyr
 65 70 75 80
 Lys Thr Glu Pro Val Pro Asp Gln Asp Glu Leu Asp Leu Leu Ser Lys
 85 90 95
 Ala Ala Val Thr Ala Leu Ala Ser Leu Tyr Gly Thr Lys Phe Asn Tyr
 100 105 110
 Gly Ser Ile Ile Lys Ala Ile Tyr Gln Ala Ser Gly Ser Thr Ile Asp
 115 120 125
 Trp Thr Tyr Ser Gln Gly Ile Lys Tyr Ser Phe Thr Phe Glu Leu Arg
 130 135 140
 Asp Thr Gly Arg Tyr Gly Phe Leu Leu Pro Ala Ser Gln Ile Ile Pro
 145 150 155 160
 Thr Ala Lys Glu Thr Trp Leu Ala Leu Leu Thr Ile Met Glu His Thr
 165 170 175
 Leu Asn His Pro Tyr
 180

<210> 2221

<211> 223

<212> PRT

<213> Homo sapiens

<400> 2221

Met Gly Ala Gly Gly Gly Ser Gln His Gly Leu Arg Gln Val Ser Arg
 1 5 10 15
 Met Glu Met Gly Gly Gly Pro Ser Gly Ser Ala Met Cys Ser Glu Ala
 20 25 30
 Gly Val Gly Val Arg Thr Pro Pro Gln Gly Ala Gly Ala Gln Ser Trp
 35 40 45
 Leu Gly Ser Leu Pro Gly Cys Gly Ala Gly Ala Gly Pro Trp Ala Ala
 50 55 60
 Leu Gly Arg Arg Arg Ile Gly Arg Leu Ala Leu Trp Ala Ala Pro Arg
 65 70 75 80
 Arg Ser Gly Gly Pro Arg Arg Thr Ser Glu Val Gly Gly Ser Arg Pro
 85 90 95
 His Arg Gly Met Phe Trp Arg Ser Arg Glu Gln Ser Pro Arg Ala Arg
 100 105 110
 Gly Gly Arg Gly Thr Val Gln Val Pro Gly Ala Gly Val Ser Gly Thr
 115 120 125
 Val Pro Gly Thr Arg Trp Ser Ala Val Gly Pro Cys Gly Glu Arg Arg
 130 135 140
 Pro Leu Ala Arg Gly Arg Arg Thr Glu Ala Gly Gly Glu Gly Glu Pro
 145 150 155 160
 Gly Arg Gly Thr Val Val Pro Gly Ala Ala Leu Arg Val Gly Thr Trp
 165 170 175
 Arg Ser Cys Ala Pro Trp Arg Gly Gly Gly Glu Ala Gly Glu Arg Pro
 180 185 190
 Trp Leu Leu Pro Pro Gly Val Pro Arg Val Thr Ala Ala Ala Ala Ile
 195 200 205
 Leu Pro Asn Thr Asp Pro Pro Pro Ala Pro Ala Asp Ser Gly Val
 210 215 220

<210> 2222

<211> 107

<212> PRT

<213> Homo sapiens

<400> 2222

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Met Phe Leu Thr Cys Ser Trp Gly Phe Ser Gln Gln Tyr Ser Gly His
 1             5             10             15
Phe Pro Ser Cys Gly Ser Thr Val Cys Asn Ala Gly Leu Gln Val Ala
      20             25             30
Glu Glu Asp Gly Ala Glu Glu Ser His Met Gly Val Cys Leu Ala Gln
      35             40             45
Gly Gly Ser Gly Cys Ala Phe Leu Leu Pro Thr Ser Leu Thr Arg Pro
      50             55             60
His Pro Thr Ala Arg Glu Ala Gly Glu Cys Gly Leu Asp Leu Asn Pro
      65             70             75             80
Arg Arg Arg Asn Gly Phe Leu Asn Ser Trp Pro Phe Thr Asp Thr Lys
      85             90             95
Arg Val Lys Val Thr Cys Arg Gly Asp Glu Phe
      100             105

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<210> 2223

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2223

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Met Arg Gly His Ala Asp Ser Val Thr Gly Leu Ser Leu Ser Ser Glu
 1             5             10             15
Gly Ser Tyr Leu Leu Ser Asn Ala Met Asp Asn Thr Val Arg Val Trp
      20             25             30
Asp Val Arg Pro Phe Ala Pro Lys Glu Arg Cys Val Lys Ile Phe Gln
      35             40             45
Gly Asn Val His Asn Phe Glu Lys Asn Leu Leu Arg Cys Ser Trp Ser
      50             55             60
Pro Asp Gly Ser Lys Ile Ala Ala Gly Ser Ala Asp Arg Phe Val Tyr
      65             70             75             80
Val Trp Asp Thr Thr Ser Arg Arg Ile Leu Tyr Lys Leu Pro Gly His

```

	85		90		95
Ala Gly Ser Ile Asn Glu Val Ala Phe His Pro Asp Glu Pro Ile Ile					
100		105		110	
Ile Ser Ala Ser Ser Asp Lys Arg Leu Tyr Met Gly Glu Ile Gln					
115		120		125	

<210> 2224

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2224

Met Arg Ala Phe Leu Pro Ser Ala Arg His Ser Gly Phe Leu Thr Cys					
1	5	10	15		
Thr Leu Thr Ala Arg Gln Asn Leu Gly Val His Lys Lys Asp Leu Arg					
20	25	30			
Trp Asp Met Glu Glu Gln Gly Pro Leu Leu Val Cys Pro Pro Ser Pro					
35	40	45			
His Leu His Ser Ser Pro Asn Leu Pro Leu Gln Ser Arg Glu Lys Thr					
50	55	60			
Ser Glu Asn Ile Arg Ser Asp Ser Thr Glu Ala Gln Thr Gly Gln Gln					
65	70	75	80		
Glu Cys Ala Gly His Trp Glu Met Trp Ser Arg Ser Ser His Ser Pro					
85	90	95			
Tyr Arg Pro Pro Thr Asn Tyr Arg Asn Ala Lys Ser Ala Gln Pro Leu					
100	105	110			
Pro Thr					

<210> 2225

<211> 226

<212> PRT

<213> Homo sapiens

<400> 2225

Met Tyr Cys Cys Arg Val Thr Ser Gln Ser Leu Gln Leu Pro Tyr Gly
 1 5 10 15
 Pro Ser Val Met Val Gly Phe Ser Pro Leu Gln Lys His Gly Leu Val
 20 25 30
 Ile Ile Pro Asp Gly Thr Pro Asn Gly Asp Val Ser His Glu Pro Val
 35 40 45
 Ala Gly Ala Ile Thr Val Val Ser Gln Glu Ala Ala Gln Val Leu Glu
 50 55 60
 Ser Ala Gly Glu Gly Pro Leu Asp Val Arg Leu Arg Lys Leu Ala Gly
 65 70 75 80
 Glu Lys Glu Glu Leu Leu Ser Gln Ile Arg Lys Leu Lys Leu Gln Leu
 85 90 95
 Glu Glu Glu Arg Gln Lys Cys Ser Arg Asn Asp Gly Thr Val Gly Asp
 100 105 110
 Leu Ala Gly Leu Gln Asn Gly Ser Asp Leu Gln Phe Ile Glu Met Gln
 115 120 125
 Arg Asp Ala Asn Arg Gln Ile Ser Glu Tyr Lys Phe Lys Leu Ser Lys
 130 135 140
 Ala Glu Gln Asp Ile Thr Thr Leu Glu Gln Ser Ile Ser Arg Leu Glu
 145 150 155 160
 Gly Gln Val Leu Arg Tyr Lys Thr Ala Ala Glu Asn Ala Glu Lys Val
 165 170 175
 Glu Asp Glu Leu Lys Ala Glu Lys Arg Lys Leu Gln Arg Glu Leu Arg
 180 185 190
 Thr Ala Leu Asp Lys Ile Glu Glu Met Glu Met Thr Asn Ser His Leu
 195 200 205
 Ala Lys Arg Leu Glu Lys Met Lys Ala Asn Arg Thr Ala Leu Leu Ala
 210 215 220
 Gln Gln
 225

<210> 2226

<211> 462

<212> PRT

<213> Homo sapiens

<400> 2226

Met Phe Ile Ser Asp Ala Phe Gly Glu Gly Glu Leu Thr Pro Ile Ala
 1 5 10 15
 Val Asp Thr Thr Ser Gln Arg Asn Ala Ser Pro Asn Ser Glu Pro Cys
 20 25 30
 Ser Ser Asp Ser Val Ser Glu Pro Glu Cys Thr Thr Asp Ser Ser Ser
 35 40 45
 Ser Lys Glu His Thr Ser Ser Ser Ala Ile Pro Gly Gly Val Asp Ile
 50 55 60
 Met Val Ser Glu Asp Met Lys Leu Thr Asp Ser Glu Leu Gly Lys Leu
 65 70 75 80
 Ala Asn Asn Ile Gln Glu Leu Leu Tyr Ser Ala Ser Asp Ile Cys His
 85 90 95
 Asp Arg Ala Val Lys Phe Leu Met Ser Arg Ala Lys Asp Gly Phe Leu
 100 105 110
 Glu Lys Leu Asn Ser Met Glu Phe Ile Thr Leu Ser Arg Leu Met Glu
 115 120 125
 Thr Phe Ile Leu Asp Thr Glu Gln Ile Cys Gly Arg Lys Ser Thr Ser
 130 135 140
 Leu Leu Gly Ala Leu Gln Ser Gln Ala Ile Lys Phe Val Asn Arg Phe
 145 150 155 160
 His Glu Glu Arg Lys Thr Lys Leu Ser Leu Leu Leu Asp Asn Glu Arg
 165 170 175
 Trp Lys Gln Ala Asp Val Pro Ala Glu Phe Gln Asp Leu Val Asp Ser
 180 185 190
 Leu Ser Asp Gly Lys Ile Ala Leu Pro Glu Lys Lys Ser Gly Ala Thr
 195 200 205
 Glu Glu Arg Lys Pro Ala Glu Val Leu Ile Val Glu Gly Gln Gln Tyr
 210 215 220
 Ala Val Val Gly Thr Val Leu Leu Leu Ile Arg Ile Ile Leu Glu Tyr
 225 230 235 240
 Cys Gln Cys Val Asp Asn Ile Pro Ser Val Thr Thr Asp Met Leu Thr
 245 250 255
 Arg Leu Ser Asp Leu Leu Lys Tyr Phe Asn Ser Arg Ser Cys Gln Leu

260	265	270
Val Leu Gly Ala Gly Ala Leu Gln Val Val Gly Leu Lys Thr Ile Thr		
275	280	285
Thr Lys Asn Leu Ala Leu Ser Ser Arg Cys Leu Gln Leu Ile Val His		
290	295	300
Tyr Ile Pro Val Ile Arg Ala His Phe Glu Ala Arg Leu Pro Pro Lys		
305	310	315
Gln Tyr Ser Met Leu Arg His Phe Asp His Ile Thr Lys Asp Tyr His		
325	330	335
Asp His Ile Ala Glu Ile Ser Ala Lys Leu Val Ala Ile Met Asp Ser		
340	345	350
Leu Phe Asp Lys Leu Leu Ser Lys Tyr Glu Val Lys Ala Pro Val Pro		
355	360	365
Ser Ala Cys Phe Arg Asn Ile Cys Lys Gln Met Thr Lys Met His Glu		
370	375	380
Ala Ile Phe Asp Leu Leu Pro Glu Glu Gln Thr Gln Met Leu Phe Leu		
385	390	395
Arg Ile Asn Ala Ser Tyr Lys Leu His Leu Lys Lys Gln Leu Ser His		
405	410	415
Leu Asn Val Ile Asn Asp Gly Gly Pro Gln Asn Gly Leu Val Thr Ala		
420	425	430
Asp Val Ala Phe Tyr Thr Gly Asn Leu Gln Ala Leu Lys Gly Leu Lys		
435	440	445
Asp Leu Asp Leu Asn Met Ala Glu Ile Trp Glu Gln Lys Arg		
450	455	460

<210> 2227

<211> 234

<212> PRT

<213> Homo sapiens

<400> 2227

Met Arg Ala Pro Leu Cys Leu Leu Leu Val Ala His Ala Val Asp
1 5 10 15
Met Leu Ala Leu Asn Arg Arg Lys Lys Gln Val Gly Thr Gly Leu Gly

20	25	30
Gly Asn Cys Thr Gly Cys Ile Ile Cys Ser Glu Glu Asn Gly Cys Ser		
35	40	45
Thr Cys Gln Gln Arg Leu Phe Leu Phe Ile Arg Arg Glu Gly Ile Arg		
50	55	60
Gln Tyr Gly Lys Cys Leu His Asp Cys Pro Pro Gly Tyr Phe Gly Ile		
65	70	75
Arg Gly Gln Glu Val Asn Arg Cys Lys Lys Cys Gly Ala Thr Cys Glu		
85	90	95
Ser Cys Phe Ser Gln Asp Phe Cys Ile Arg Cys Lys Arg Gln Phe Tyr		
100	105	110
Leu Tyr Lys Gly Lys Cys Leu Pro Thr Cys Pro Pro Gly Thr Leu Ala		
115	120	125
His Gln Asn Thr Arg Glu Cys Gln Gly Glu Cys Glu Leu Gly Pro Trp		
130	135	140
Gly Gly Trp Ser Pro Cys Thr His Asn Gly Lys Thr Cys Gly Ser Ala		
145	150	155
Trp Gly Leu Glu Ser Arg Val Arg Glu Ala Gly Arg Ala Gly His Glu		
165	170	175
Glu Ala Ala Thr Cys Gln Val Leu Ser Glu Ser Arg Lys Cys Pro Ile		
180	185	190
Gln Arg Pro Cys Pro Gly Glu Arg Ser Pro Gly Gln Lys Lys Gly Arg		
195	200	205
Lys Asp Arg Arg Pro Arg Lys Asp Arg Lys Leu Asp Arg Arg Leu Asp		
210	215	220
Val Arg Pro Arg Gln Pro Gly Leu Gln Pro		
225	230	

<210> 2228

<211> 436

<212> PRT

<213> Homo sapiens

<400> 2228

Met	Leu	Trp	Asn	Phe	Lys	Pro	His	Ala	Arg	Ala	Tyr	Arg	Tyr	Val	Gly
1				5					10					15	
His	Lys	Asp	Val	Val	Thr	Ser	Val	Gln	Phe	Ser	Pro	His	Gly	Asn	Leu
			20					25					30		
Leu	Ala	Ser	Ala	Ser	Arg	Asp	Arg	Thr	Val	Arg	Leu	Trp	Ile	Pro	Asp
		35					40					45			
Lys	Arg	Gly	Lys	Phe	Ser	Glu	Phe	Lys	Ala	His	Thr	Ala	Pro	Val	Arg
	50					55					60				
Ser	Val	Asp	Phe	Ser	Ala	Asp	Gly	Gln	Phe	Leu	Ala	Thr	Ala	Ser	Glu
65					70					75				80	
Asp	Lys	Ser	Ile	Lys	Val	Trp	Ser	Met	Tyr	Arg	Gln	Arg	Phe	Leu	Tyr
			85					90					95		
Ser	Leu	Tyr	Arg	His	Thr	His	Trp	Val	Arg	Cys	Ala	Lys	Phe	Ser	Pro
		100					105					110			
Asp	Gly	Arg	Leu	Ile	Val	Ser	Cys	Ser	Glu	Asp	Lys	Thr	Ile	Lys	Ile
	115					120					125				
Trp	Asp	Thr	Thr	Asn	Lys	Gln	Cys	Val	Asn	Asn	Phe	Ser	Asp	Ser	Val
	130				135						140				
Gly	Phe	Ala	Asn	Phe	Val	Asp	Phe	Asn	Pro	Ser	Gly	Thr	Cys	Ile	Ala
145				150					155				160		
Ser	Ala	Gly	Ser	Asp	Gln	Thr	Val	Lys	Val	Trp	Asp	Val	Arg	Val	Asn
			165					170				175			
Lys	Leu	Leu	Gln	His	Tyr	Gln	Val	His	Ser	Gly	Gly	Val	Asn	Cys	Ile
	180					185						190			
Ser	Phe	His	Pro	Ser	Gly	Asn	Tyr	Leu	Ile	Thr	Ala	Ser	Ser	Asp	Gly
	195				200					205					
Thr	Leu	Lys	Ile	Leu	Asp	Leu	Leu	Glu	Gly	Arg	Leu	Ile	Tyr	Thr	Leu
	210				215					220					
Gln	Gly	His	Thr	Gly	Pro	Ala	Phe	Thr	Val	Ser	Phe	Ser	Lys	Gly	Gly
225				230				235					240		
Glu	Leu	Phe	Ala	Ser	Gly	Gly	Ala	Asp	Thr	Gln	Val	Leu	Leu	Trp	Arg
			245					250				255			
Thr	Asn	Phe	Asp	Glu	Leu	His	Cys	Lys	Gly	Leu	Thr	Lys	Arg	Asn	Leu
	260						265				270				
Lys	Arg	Leu	His	Phe	Asp	Ser	Pro	Pro	His	Leu	Leu	Asp	Ile	Tyr	Pro
	275					280					285				

Arg Thr Pro His Pro His Glu Glu Lys Val Glu Thr Val Glu Ile Asn
 290 295 300
 Pro Lys Leu Glu Val Ile Asp Leu Gln Ile Ser Thr Pro Pro Val Met
 305 310 315 320
 Asp Ile Leu Ser Phe Asp Ser Thr Thr Thr Thr Glu Thr Ser Gly Arg
 325 330 335
 Thr Leu Pro Asp Lys Gly Glu Glu Ala Cys Gly Tyr Phe Leu Asn Pro
 340 345 350
 Ser Leu Met Ser Pro Glu Cys Leu Pro Thr Thr Thr Lys Lys Lys Thr
 355 360 365
 Glu Asp Met Ser Asp Leu Pro Cys Glu Ser Gln Arg Ser Ile Pro Leu
 370 375 380
 Ala Val Thr Asp Ala Leu Glu His Ile Met Glu Gln Leu Asn Val Leu
 385 390 395 400
 Thr Gln Thr Val Ser Ile Leu Glu Gln Arg Leu Thr Leu Thr Glu Asp
 405 410 415
 Lys Leu Lys Asp Cys Leu Glu Asn Gln Gln Lys Leu Phe Ser Ala Val
 420 425 430
 Gln Gln Lys Ser
 435

<210> 2229

<211> 162

<212> PRT

<213> Homo sapiens

<400> 2229

Met Asn Ser Arg Thr Ala Ser Ala Arg Gly Trp Phe Ser Ser Arg Pro
 1 5 10 15
 Pro Thr Ser Glu Ser Asp Leu Glu Pro Ala Thr Asp Gly Pro Ala Ser
 20 25 30
 Glu Thr Thr Thr Leu Ser Pro Glu Ala Thr Thr Phe Asn Asp Thr Arg
 35 40 45
 Ile Pro Asp Ala Ala Gly Gly Thr Ala Gly Val Gly Thr Met Leu Leu
 50 55 60

Ser Phe Gly Ile Ile Thr Val Ile Gly Leu Ala Val Ala Leu Val Leu
 65 70 75 80
 Tyr Ile Arg Lys Lys Lys Arg Leu Glu Lys Leu Arg His Gln Leu Met
 85 90 95
 Pro Met Tyr Asn Phe Asp Pro Thr Glu Glu Gln Asp Glu Leu Glu Gln
 100 105 110
 Glu Leu Leu Glu His Gly Arg Asp Ala Ala Ser Val Gln Ala Ala Thr
 115 120 125
 Ser Val Gln Ala Met Gln Gly Lys Thr Thr Leu Pro Ser Gln Gly Pro
 130 135 140
 Leu Gln Arg Pro Ser Arg Leu Val Phe Thr Asp Val Ala Asn Ala Ile
 145 150 155 160
 His Val

<210> 2230

<211> 842

<212> PRT

<213> Homo sapiens

<400> 2230

Met Glu Arg Tyr Lys Ala Leu Glu Gln Leu Leu Thr Glu Leu Asp Asp
 1 5 10 15
 Phe Leu Lys Ile Leu Asp Gln Glu Asn Leu Ser Ser Thr Ala Leu Val
 20 25 30
 Lys Lys Ser Cys Leu Ala Glu Leu Leu Arg Leu Tyr Thr Lys Ser Ser
 35 40 45
 Ser Ser Asp Glu Glu Tyr Ile Tyr Met Asn Lys Val Thr Ile Asn Lys
 50 55 60
 Gln Gln Asn Ala Glu Ser Gln Gly Lys Ala Pro Glu Glu Gln Gly Leu
 65 70 75 80
 Leu Pro Asn Gly Glu Pro Ser Gln His Ser Ser Ala Pro Gln Lys Ser
 85 90 95
 Leu Pro Asp Leu Pro Pro Pro Lys Met Ile Pro Glu Arg Lys Gln Leu

100	105	110
Ala Ile Pro Lys Thr Glu Ser Pro Glu Gly Tyr Tyr Glu Glu Ala Glu		
115	120	125
Pro Tyr Asp Thr Ser Leu Asn Gly His Ser Gly Gly Phe Leu Pro Thr		
130	135	140
Gly Val Pro Arg Trp Val Gln Val Pro Glu Arg Val Ile Tyr Ala Thr		
145	150	155
Ile Thr Leu Glu Asp Gly Glu Ala Val Ser Ser Ser Tyr Glu Ser Tyr		
165	170	175
Asp Glu Glu Asp Gly Ser Lys Gly Lys Ser Ala Pro Tyr Gln Trp Pro		
180	185	190
Ser Pro Glu Ala Gly Ile Glu Leu Met Arg Asp Ala Arg Ile Cys Ala		
195	200	205
Phe Leu Trp Arg Lys Lys Trp Leu Gly Gln Trp Ala Lys Gln Leu Cys		
210	215	220
Val Ile Lys Asp Asn Arg Leu Leu Cys Tyr Lys Ser Ser Lys Asp His		
225	230	235
Ser Pro Gln Leu Asp Val Asn Leu Leu Gly Ser Ser Val Ile His Lys		
245	250	255
Glu Lys Gln Val Arg Lys Lys Glu His Lys Leu Lys Ile Thr Pro Met		
260	265	270
Asn Ala Asp Val Ile Val Leu Gly Leu Gln Ser Lys Asp Gln Ala Glu		
275	280	285
Gln Trp Leu Arg Val Ile Gln Glu Val Ser Gly Leu Pro Ser Glu Gly		
290	295	300
Ala Ser Glu Gly Asn Gln Tyr Thr Pro Asp Ala Gln Arg Phe Asn Cys		
305	310	315
Gln Lys Pro Asp Ile Ala Glu Lys Tyr Leu Ser Ala Ser Glu Tyr Gly		
325	330	335
Ser Ser Val Asp Gly His Pro Glu Val Pro Glu Thr Lys Asp Val Lys		
340	345	350
Lys Lys Cys Ser Ala Gly Leu Lys Leu Ser Asn Leu Met Asn Leu Gly		
355	360	365
Arg Lys Lys Ser Thr Ser Leu Glu Pro Val Glu Arg Ser Leu Glu Thr		
370	375	380
Ser Ser Tyr Leu Asn Val Leu Val Asn Ser Gln Trp Lys Ser Arg Trp		

385	390	395	400
Cys Ser Val Arg Asp Asn His Leu His Phe Tyr Gln Asp Arg Asn Arg			
405	410	415	
Ser Lys Val Ala Gln Gln Pro Leu Ser Leu Val Gly Cys Glu Val Val			
420	425	430	
Pro Asp Pro Ser Pro Asp His Leu Tyr Ser Phe Arg Ile Leu His Lys			
435	440	445	
Gly Glu Glu Leu Ala Lys Leu Glu Ala Lys Ser Ser Glu Glu Met Gly			
450	455	460	
His Trp Leu Gly Leu Leu Leu Ser Glu Ser Gly Ser Lys Thr Asp Pro			
465	470	475	480
Glu Glu Phe Thr Tyr Asp Tyr Val Asp Ala Asp Arg Val Ser Cys Ile			
485	490	495	
Val Ser Ala Ala Lys Asn Ser Leu Leu Leu Met Gln Arg Lys Phe Ser			
500	505	510	
Glu Pro Asn Thr Tyr Ile Asp Gly Leu Pro Ser Gln Asp Arg Gln Glu			
515	520	525	
Glu Leu Tyr Asp Asp Val Asp Leu Ser Glu Leu Thr Ala Ala Val Glu			
530	535	540	
Pro Thr Glu Glu Ala Thr Pro Val Ala Asp Asp Pro Asn Glu Arg Glu			
545	550	555	560
Ser Asp Arg Val Tyr Leu Asp Leu Thr Pro Val Lys Ser Phe Leu His			
565	570	575	
Gly Pro Ser Ser Ala Gln Ala Gln Ala Ser Ser Pro Thr Leu Ser Cys			
580	585	590	
Leu Asp Asn Ala Thr Glu Ala Leu Pro Ala Asp Ser Gly Pro Gly Pro			
595	600	605	
Thr Pro Asp Glu Pro Cys Ile Lys Cys Pro Glu Asn Leu Gly Glu Gln			
610	615	620	
Gln Leu Glu Ser Leu Glu Pro Glu Asp Pro Ser Leu Arg Ile Thr Thr			
625	630	635	640
Val Lys Ile Gln Thr Glu Gln Gln Arg Ile Ser Phe Pro Pro Ser Cys			
645	650	655	
Pro Asp Ala Val Val Ala Thr Pro Pro Gly Ala Ser Pro Pro Val Lys			
660	665	670	
Asp Arg Leu Arg Val Thr Ser Ala Glu Ile Lys Leu Gly Lys Asn Arg			

675	680	685
Thr Glu Ala Glu Val Lys Arg Tyr Thr Glu Glu Lys Glu Arg Leu Glu		
690	695	700
Lys Lys Lys Glu Glu Ile Arg Gly His Leu Ala Gln Leu Arg Lys Glu		
705	710	715
Lys Arg Glu Leu Lys Glu Thr Leu Leu Lys Cys Thr Asp Lys Glu Val		
725	730	735
Leu Ala Ser Leu Glu Gln Lys Leu Lys Glu Ile Asp Glu Glu Cys Arg		
740	745	750
Gly Glu Glu Ser Arg Arg Val Asp Leu Glu Leu Ser Ile Met Glu Val		
755	760	765
Lys Asp Asn Leu Lys Lys Ala Glu Ala Gly Pro Val Thr Leu Gly Thr		
770	775	780
Thr Val Asp Thr Thr His Leu Glu Asn Pro Lys Ala Val Thr Pro Ala		
785	790	795
Ser Ala Pro Asp Cys Thr Pro Val Asn Ser Ala Thr Thr Leu Lys Asn		
805	810	815
Arg Pro Leu Ser Val Val Val Thr Gly Lys Gly Thr Val Leu Gln Lys		
820	825	830
Ala Lys Glu Trp Glu Lys Lys Gly Ala Ser		
835	840	

<210> 2231

<211> 141

<212> PRT

<213> Homo sapiens

<400> 2231

Met Ile Ser Ala His Cys Ser Asn Leu His Phe Leu Gly Ser Ser Glu
1 5 10 15
Ser Pro Thr Leu Ala Ser Gln Val Gly Glu Ile Thr Gly Thr His His
20 25 30
His Thr Arg Leu Ile Phe Val Phe Leu Val Glu Thr Gly Phe His His
35 40 45
Val Gly His Ala Gly Leu Glu Leu Leu Thr Ser Ser Asp Pro Pro Thr

50	55	60
Leu Ala Ser Arg Ser Ala Gly Ile Thr Gly Met Ser His Arg Ala Arg		
65	70	75
Pro His Gly Ile Ser Arg Gly Glu Gln Val Thr Leu Gly Leu Pro Leu		
85	90	95
Glu Leu Leu Glu Cys Val Ser Trp Pro Leu Cys Gly Ser Pro Leu Arg		
100	105	110
Lys Ala Gln Ile Val Ser Thr Pro Pro Ser Pro Leu Ala Ala Leu Arg		
115	120	125
Val Pro Val Gly Ala Glu Gly Trp Gly Gly Thr Glu Gln		
130	135	140

<210> 2232

<211> 1139

<212> PRT

<213> Homo sapiens

<400> 2232

Met Met Met Gly Thr Arg Thr Arg Arg Ala Ala Arg Leu Thr Met Met		
1	5	10
Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Met Met Gly Thr Arg		
20	25	30
Thr Arg Arg Ala Ala Arg Leu Thr Met Met Gly Thr Arg Thr Leu Arg		
35	40	45
Ala Ala Arg Leu Met Met Met Gly Thr Arg Thr His Arg Thr Ala Trp		
50	55	60
Leu Met Ile Met Gly Thr Arg Thr Leu Arg Thr Ala Arg Leu Met Met		
65	70	75
Arg Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Ile Met Gly Thr		
85	90	95
Arg Thr Arg Arg Ala Ala Arg Leu Thr Met Met Gly Thr Arg Thr His		
100	105	110
Arg Thr Ala Arg Leu Thr Met Met Gly Thr Arg Thr His Arg Thr Ala		
115	120	125
Arg Leu Thr Met Met Gly Thr Arg Thr His Arg Ala Ala Arg Leu Thr		

130	135	140	
Met Met Gly Thr Arg Thr Leu Arg Ala Ala Trp Leu Met Val Met Gly			
145	150	155	160
Thr Arg Thr Arg Arg Ala Ala Arg Leu Met Ile Met Gly Thr Arg Thr			
	165	170	175
Leu Arg Ala Ala Arg Leu Met Ile Met Gly Thr Arg Thr His Arg Thr			
	180	185	190
Ala Arg Leu Met Met Arg Gly Thr Arg Thr Leu Arg Ser Ala Arg Leu			
	195	200	205
Met Met Arg Gly Thr Arg Thr Leu Arg Ala Ala Arg Val Met Ile Met			
	210	215	220
Gly Thr Arg Thr Arg Arg Ala Ala Arg Leu Met Ile Met Gly Thr Arg			
225	230	235	240
Thr Leu Arg Ala Ala Gln Leu Met Met Met Gly Thr Arg Thr His Arg			
	245	250	255
Ala Ala Arg Leu Met Met Met Gly Thr Arg Thr His Arg Thr Ala Arg			
	260	265	270
Leu Met Met Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Met			
	275	280	285
Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Ile Met Gly Thr			
	290	295	300
Arg Thr His Arg Thr Ala Arg Leu Met Met Arg Gly Thr Arg Thr Leu			
305	310	315	320
Arg Thr Ala Arg Leu Met Met Arg Gly Thr Arg Thr Leu Arg Ala Ala			
	325	330	335
Arg Leu Thr Ile Met Gly Thr Arg Thr His Arg Ala Ala Arg Leu Thr			
	340	345	350
Ile Met Gly Thr Arg Thr His Arg Thr Ala Arg Leu Thr Met Met Gly			
	355	360	365
Thr Arg Thr Leu Arg Ala Ala Arg Leu Thr Met Met Gly Thr Arg Thr			
	370	375	380
Leu Arg Ala Ala Arg Leu Met Ile Met Gly Thr Arg Thr His Arg Ala			
385	390	395	400
Ala Arg Leu Met Met Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu			
	405	410	415
Met Met Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Met Met			

420	425	430
Gly Thr Arg Thr Leu Arg Ala	Ala Arg Leu Met Met	Met Gly Thr Arg
435	440	445
Thr Leu Arg Ala Ala Arg Leu	Met Met Met Gly Thr Arg	Thr His Arg
450	455	460
Ala Ala Arg Leu Met Arg Gly	Thr Arg Thr His Arg Thr	Ala Arg Leu
465	470	475
Met Met Arg Gly Thr Arg Thr	Leu Arg Ala Ala Arg Leu	Thr Met Met
485	490	495
Gly Thr Arg Thr His Arg Ala	Ala Arg Leu Thr Met Met	Gly Thr Arg
500	505	510
Thr His Arg Ala Ala Arg Leu	Thr Met Met Gly Thr Arg	Thr Leu Arg
515	520	525
Ala Ala Arg Leu Thr Met Met	Gly Thr Arg Thr His Arg	Thr Ala Arg
530	535	540
Leu Thr Met Met Gly Thr Arg	Thr Leu Arg Ala Ala Arg	Leu Met Met
545	550	555
Met Gly Thr Arg Thr Leu Arg	Ala Ala Arg Leu Met Met	Met Gly Thr
565	570	575
Arg Thr His Arg Ala Ala Trp	Leu Met Met Met Gly Thr	Arg Thr Leu
580	585	590
Arg Ala Ala Arg Leu Thr Met	Met Gly Thr Arg Thr Leu	Arg Ala Ala
595	600	605
Arg Leu Met Met Met Gly Ser	Arg Thr Leu Arg Ala Ala	Gln Leu Met
610	615	620
Met Met Gly Thr Arg Thr His	Arg Thr Ala Trp Leu Met	Ile Met Gly
625	630	635
Thr Arg Thr Leu Arg Thr Ala	Arg Leu Met Met Arg Gly	Thr Arg Thr
645	650	655
Leu Arg Ala Ala Arg Leu Met	Ile Met Gly Thr Arg Thr	Arg Arg Ala
660	665	670
Ala Arg Leu Met Ile Met Gly	Thr Arg Thr Leu Arg Ala	Ala Arg Leu
675	680	685
Thr Ile Met Gly Thr Arg Thr	His Arg Ala Ala Arg Leu	Met Met Met
690	695	700

Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Thr Ile Met Gly Thr Arg
 705 710 715 720
 Thr His Arg Thr Ala Arg Leu Thr Met Met Gly Thr Arg Thr Leu Arg
 725 730 735
 Ala Ala Arg Leu Met Met Met Gly Thr Arg Thr Leu Arg Ala Ala Arg
 740 745 750
 Leu Met Met Met Gly Thr Arg Thr His Arg Ala Ala Arg Leu Met Met
 755 760 765
 Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Met Met Gly Thr
 770 775 780
 Arg Thr Leu Arg Ala Ala Arg Leu Met Met Met Gly Thr Arg Thr Leu
 785 790 795 800
 Arg Ala Ala Arg Leu Met Met Met Gly Thr Arg Thr His Arg Thr Ala
 805 810 815
 Arg Leu Met Met Arg Gly Thr Arg Thr Leu Arg Thr Ala Arg Leu Met
 820 825 830
 Met Arg Gly Thr Arg Thr Arg Arg Ala Ala Arg Leu Thr Ile Met Gly
 835 840 845
 Thr Arg Thr Arg Arg Thr Ala Arg Leu Thr Met Met Gly Thr Arg Thr
 850 855 860
 His Arg Thr Ala Arg Leu Thr Met Met Gly Thr Arg Thr Leu Arg Ala
 865 870 875 880
 Ala Arg Leu Thr Met Met Gly Thr Arg Thr His Arg Thr Ala Arg Leu
 885 890 895
 Thr Met Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Met Met
 900 905 910
 Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Met Met Gly Thr Arg
 915 920 925
 Thr His Arg Ala Ala Arg Leu Met Met Met Gly Thr Arg Thr Leu Arg
 930 935 940
 Ala Ala Arg Leu Met Met Met Gly Thr Arg Thr Arg Arg Ala Ala Arg
 945 950 955 960
 Leu Met Met Met Gly Ser Arg Thr Leu Arg Ala Ala Arg Leu Met Met
 965 970 975
 Met Gly Thr Arg Thr His Arg Thr Ala Arg Leu Thr Met Met Gly Thr
 980 985 990

Arg Thr His Arg Thr Ala Arg Leu Thr Met Met Gly Thr Arg Thr Leu
 995 1000 1005
 Arg Ala Ala Arg Leu Thr Met Met Gly Thr Arg Thr His Arg Ala Ala
 1010 1015 1020
 Arg Leu Thr Met Met Gly Thr Arg Thr His Arg Ala Ala Arg Leu Thr
 1025 1030 1035 1040
 Met Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Thr Met Met Gly
 1045 1050 1055
 Thr Arg Thr His Arg Thr Ala Arg Leu Thr Met Met Gly Thr Arg Thr
 1060 1065 1070
 Leu Arg Ala Ala Arg Leu Met Met Met Gly Thr Arg Thr Asp Arg Thr
 1075 1080 1085
 Ala Arg Leu Thr Met Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu
 1090 1095 1100
 Met Met Met Gly Thr Arg Thr Leu Arg Thr Ala Arg Leu Met Ile Met
 1105 1110 1115 1120
 Gly Thr Arg Thr Leu Arg Ala Ala Arg Ser Thr Val Ala Glu Thr Arg
 1125 1130 1135
 Pro Gly Ala

<210> 2233

<211> 194

<212> PRT

<213> Homo sapiens

<400> 2233

Met Asp Leu Val Gly Gly Pro His Leu Ala Leu Ser Pro Ala Ser Gln
 1 5 10 15
 Pro Ala Leu Phe Ile Cys Ser Ala Val Phe Val Ser Pro Trp His Ser
 20 25 30
 Leu Phe Arg Leu Trp Asn Ile Tyr Glu Met Ser Gln Phe Leu Lys Ile
 35 40 45
 Ile Glu Asn Lys Trp Phe Ala Leu Gly Ala Glu Gly Arg Gly Ser Gln
 50 55 60

Gly Arg Arg Gln Val Pro Gly Gln Phe Trp Gly Arg Ile Leu Ala Tyr
 65 70 75 80
 Pro Leu Leu Cys Phe Phe Ile Leu Leu Pro Trp Glu Pro Lys Gly Phe
 85 90 95
 Gln Trp Asp Phe Leu Pro Arg Phe Leu Gln Tyr Tyr Asp Met Glu Arg
 100 105 110
 Leu Glu His Ser Thr Ile His Phe Leu Ile Leu Thr Ser Thr Ile Ile
 115 120 125
 Ser Ser Ile Pro Asn Ser Gly Ser Tyr Pro Leu Ser Ser Ser Tyr Ser
 130 135 140
 Leu Ile Gln Leu Ile Asn Leu Gly Met Val Val Ser Gly Leu Ala Pro
 145 150 155 160
 Gly Pro Phe Cys Leu Leu Cys Leu Gln His Pro Leu Tyr Leu Leu Val
 165 170 175
 Asn Ser Ser Pro Ser Lys Pro Ser Gly Tyr Val Thr Thr Ser Lys Thr
 180 185 190
 Leu Asn

<210> 2234

<211> 369

<212> PRT

<213> Homo sapiens

<400> 2234

Met Thr Gly Ser Ala Val Glu Arg Leu Val Pro Glu Pro Leu Val Gly
 1 5 10 15
 Asn Leu Ser Gly Ile Glu Lys Glu Gln Leu Asp Ala Gln Arg Val Gly
 20 25 30
 Val Ala Ala Ala Val Ala Phe Gly Ser Gly Ala Leu Met Leu Gly Met
 35 40 45
 Phe Val Leu Gln Leu Gly Val Leu Ser Thr Phe Leu Ser Glu Pro Val
 50 55 60
 Val Lys Ala Leu Thr Ser Gly Ala Ala Leu His Val Leu Leu Ser Gln
 65 70 75 80

Leu Pro Ser Leu Leu Gly Leu Ser Leu Pro Arg Gln Ile Gly Cys Phe
 85 90 95
 Ser Leu Phe Lys Thr Leu Ala Ser Leu Leu Thr Thr Leu Pro Arg Ser
 100 105 110
 Ser Pro Ala Glu Leu Thr Ile Ser Ala Leu Ser Leu Ala Leu Leu Val
 115 120 125
 Pro Val Lys Glu Leu Asn Val Arg Phe Arg Asp Arg Leu Pro Thr Pro
 130 135 140
 Ile Pro Gly Glu Val Val Leu Val Leu Leu Ala Ser Val Leu Cys Phe
 145 150 155 160
 Thr Ser Ser Val Asp Thr Arg Tyr Gln Val Gln Ile Val Gly Leu Leu
 165 170 175
 Pro Gly Gly Phe Pro Gln Pro Leu Leu Pro Asn Leu Ala Glu Leu Pro
 180 185 190
 Arg Ile Leu Ala Asp Ser Leu Pro Ile Ala Leu Val Ser Phe Ala Val
 195 200 205
 Ser Ala Ser Leu Ala Ser Ile His Ala Asp Lys Tyr Ser Tyr Thr Ile
 210 215 220
 Asp Ser Asn Gln Glu Phe Leu Ala His Gly Ala Ser Asn Leu Ile Ser
 225 230 235 240
 Ser Leu Phe Ser Cys Phe Pro Asn Ser Ala Thr Leu Ala Thr Thr Asn
 245 250 255
 Leu Leu Val Asp Ala Gly Gly Lys Thr Gln Leu Ala Gly Leu Phe Ser
 260 265 270
 Cys Thr Val Val Leu Ser Val Leu Leu Trp Leu Gly Pro Phe Phe Tyr
 275 280 285
 Tyr Leu Pro Lys Ala Val Leu Ala Cys Ile Asn Ile Ser Ser Met Arg
 290 295 300
 Gln Val Phe Cys Gln Met Gln Glu Leu Pro Gln Leu Trp His Ile Ser
 305 310 315 320
 Arg Val Asp Phe Ala Val Trp Met Val Thr Trp Val Ala Val Val Thr
 325 330 335
 Leu Ser Val Asp Leu Gly Leu Ala Val Gly Val Val Phe Ser Met Met
 340 345 350
 Thr Val Val Cys Arg Thr Arg Ser Ser Ser Arg Ser Arg Gly Ser Ala
 355 360 365

Ser

<210> 2235

<211> 304

<212> PRT

<213> Homo sapiens

<400> 2235

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Met Ala Glu Phe Leu Asp Asp Gln Glu Thr Arg Leu Cys Asp Asn Cys
  1             5             10            15
Lys Lys Glu Ile Pro Val Phe Asn Phe Thr Ile His Glu Ile His Cys
      20             25            30
Gln Arg Asn Ile Gly Met Cys Pro Thr Cys Lys Glu Pro Phe Pro Lys
      35             40            45
Ser Asp Met Glu Thr His Met Ala Ala Glu His Cys Gln Val Thr Cys
      50             55            60
Lys Cys Asn Lys Lys Leu Glu Lys Arg Leu Leu Lys Lys His Glu Glu
      65             70            75            80
Thr Glu Cys Pro Leu Arg Leu Ala Val Cys Gln His Cys Asp Leu Glu
      85             90            95
Leu Ser Ile Leu Lys Leu Lys Glu His Glu Asp Tyr Cys Gly Ala Arg
      100            105            110
Thr Glu Leu Cys Gly Asn Cys Gly Arg Asn Val Leu Val Lys Asp Leu
      115            120            125
Lys Thr His Pro Glu Val Cys Gly Arg Glu Gly Glu Glu Lys Arg Asn
      130            135            140
Glu Val Ala Ile Pro Pro Asn Ala Tyr Asp Glu Ser Trp Gly Gln Asp
      145            150            155            160
Gly Ile Trp Ile Ala Ser Gln Leu Leu Arg Gln Ile Glu Ala Leu Asp
      165            170            175
Pro Pro Met Arg Leu Pro Arg Arg Pro Leu Arg Ala Phe Glu Ser Asp
      180            185            190
Val Phe His Asn Arg Thr Thr Asn Gln Arg Asn Ile Thr Ala Gln Val
      195            200            205

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Ser Ile Gln Asn Asn Leu Phe Glu Glu Gln Glu Arg Gln Glu Arg Asn
 210 215 220
 Arg Gly Gln Gln Pro Pro Lys Glu Gly Gly Glu Glu Ser Ala Asn Leu
 225 230 235 240
 Asp Phe Met Leu Ala Leu Ser Leu Gln Asn Glu Gly Gln Ala Ser Ser
 245 250 255
 Val Ala Glu Gln Asp Phe Trp Arg Ala Val Cys Glu Ala Asp Gln Ser
 260 265 270
 His Gly Gly Pro Arg Ser Leu Ser Asp Ile Arg Val Gln Leu Thr Arg
 275 280 285
 Ser Cys Cys Leu Val Asn Phe Val Arg Ser Ser Thr Gln Arg Asn Cys
 290 295 300

<210> 2236

<211> 216

<212> PRT

<213> Homo sapiens

<400> 2236

Met Leu Lys Phe Gln Glu Ala Ala Lys Cys Val Ser Gly Ser Thr Ala
 1 5 10 15
 Ile Ser Thr Tyr Pro Lys Thr Leu Ile Ala Arg Arg Tyr Val Leu Gln
 20 25 30
 Gln Lys Leu Gly Ser Gly Ser Phe Gly Thr Val Tyr Leu Val Ser Asp
 35 40 45
 Lys Lys Ala Lys Arg Gly Glu Glu Leu Lys Val Leu Lys Glu Ile Ser
 50 55 60
 Val Gly Glu Leu Asn Pro Asn Glu Thr Val Gln Ala Asn Leu Glu Ala
 65 70 75 80
 Gln Leu Leu Ser Lys Leu Asp His Pro Ala Ile Val Lys Phe His Ala
 85 90 95
 Ser Phe Val Glu Gln Asp Asn Phe Cys Ile Ile Thr Glu Tyr Cys Glu
 100 105 110
 Gly Arg Asp Leu Asp Asp Lys Ile Gln Glu Tyr Lys Gln Ala Gly Lys
 115 120 125

Ile Phe Pro Glu Asn Gln Ile Ile Glu Trp Phe Ile Gln Leu Leu Leu
 130 135 140
 Gly Val Asp Tyr Met His Glu Arg Arg Ile Leu His Arg Asp Leu Lys
 145 150 155 160
 Ser Lys Asn Val Phe Leu Lys Asn Asn Leu Leu Lys Ile Gly Asp Phe
 165 170 175
 Gly Val Ser Arg Leu Leu Met Gly Ser Cys Asp Leu Ala Thr Thr Leu
 180 185 190
 Thr Gly Thr Pro His Tyr Met Ser Pro Glu Ala Leu Lys His Gln Gly
 195 200 205
 Tyr Asp Thr Lys Ser Asp Ile Trp
 210 215

<210> 2237

<211> 477

<212> PRT

<213> Homo sapiens

<400> 2237

Met Ser Val Ser Asn Leu Ser Trp Leu Lys Lys Lys Ser Gln Ser Val
 1 5 10 15
 Asp Ile Asn Ala Pro Gly Phe Asn Pro Leu Ala Gly Ala Gly Lys Gln
 20 25 30
 Thr Pro Gln Ala Ser Lys Pro Pro Ala Pro Lys Thr Pro Ile Ile Glu
 35 40 45
 Glu Glu Gln Asn Asn Ala Ala Asn Thr Gln Lys His Pro Ser Arg Arg
 50 55 60
 Ser Glu Leu Lys Arg Phe Tyr Thr Ile Asp Thr Gly Gln Lys Lys Thr
 65 70 75 80
 Leu Asp Lys Lys Asp Gly Arg Arg Met Ser Phe Gln Lys Pro Lys Gly
 85 90 95
 Thr Ile Glu Tyr Thr Val Glu Ser Arg Asp Ser Leu Asn Ser Ile Ala
 100 105 110
 Leu Lys Phe Asp Thr Thr Pro Asn Glu Leu Val Gln Leu Asn Lys Leu
 115 120 125

Phe Ser Arg Ala Val Val Thr Gly Gln Val Leu Tyr Val Pro Asp Pro
 130 135 140
 Glu Tyr Val Ser Ser Val Glu Ser Ser Pro Ser Leu Ser Pro Val Ser
 145 150 155 160
 Pro Leu Ser Pro Thr Ser Ser Glu Ala Glu Phe Asp Lys Thr Thr Asn
 165 170 175
 Pro Asp Val His Pro Thr Glu Ala Thr Pro Ser Ser Thr Phe Thr Gly
 180 185 190
 Ile Arg Pro Ala Arg Val Val Ser Ser Thr Ser Glu Glu Glu Glu Ala
 195 200 205
 Phe Thr Glu Lys Phe Leu Lys Ile Asn Cys Lys Tyr Ile Thr Ser Gly
 210 215 220
 Lys Gly Thr Val Ser Gly Val Leu Leu Val Thr Pro Asn Asn Ile Met
 225 230 235 240
 Phe Asp Pro His Lys Asn Asp Pro Leu Val Gln Glu Asn Gly Cys Glu
 245 250 255
 Glu Tyr Gly Ile Met Cys Pro Met Glu Glu Val Met Ser Ala Ala Met
 260 265 270
 Tyr Lys Glu Ile Leu Asp Ser Lys Ile Lys Glu Ser Leu Pro Ile Asp
 275 280 285
 Ile Asp Gln Leu Ser Gly Arg Asp Phe Cys His Ser Lys Lys Met Thr
 290 295 300
 Gly Ser Asn Thr Glu Glu Ile Asp Ser Arg Ile Arg Asp Ala Gly Asn
 305 310 315 320
 Asp Ser Ala Ser Thr Ala Pro Arg Ser Thr Glu Glu Ser Leu Ser Glu
 325 330 335
 Asp Val Phe Thr Glu Ser Glu Leu Ser Pro Ile Arg Glu Glu Leu Val
 340 345 350
 Ser Ser Asp Glu Leu Arg Gln Asp Lys Ser Ser Gly Ala Ser Ser Glu
 355 360 365
 Ser Val Gln Thr Val Asn Gln Ala Glu Val Glu Ser Leu Thr Val Lys
 370 375 380
 Ser Glu Ser Thr Gly Thr Pro Gly His Leu Arg Ser Asp Thr Glu His
 385 390 395 400
 Ser Thr Asn Glu Val Gly Thr Leu Cys His Lys Thr Asp Leu Asn Asn
 405 410 415

Leu Glu Met Ala Ile Lys Glu Asp Gln Ile Ala Asp Asn Phe Gln Gly
 420 425 430
 Ile Ser Gly Pro Lys Glu Asp Ser Thr Ser Ile Lys Gly Asn Ser Asp
 435 440 445
 Gln Asp Ser Phe Leu His Glu Asn Ser Leu His Gln Glu Glu Ser Gln
 450 455 460
 Lys Glu Asn Met Pro Cys Gly Glu Thr Ala Glu Phe Lys
 465 470 475

<210> 2238

<211> 151

<212> PRT

<213> Homo sapiens

<400> 2238

Met Gly Arg Gln Ser Pro Ala Asp Gly Trp Ala Leu Trp Ala Ala Thr
 1 5 10 15
 Leu Cys Glu Gln Gly Val Gly Pro Ile His Phe Lys Asp Gln Ser Pro
 20 25 30
 Ala Leu Gly Glu Cys Ser Trp Pro Arg Leu Gly Ile Thr Phe Arg Gly
 35 40 45
 Pro Ser Asp Ser Gly Gly Ala Cys Cys Gly Leu Pro Pro Ala Ser Gly
 50 55 60
 Val Ala Glu Gln Thr Pro Gly Pro Gly Pro Val Pro Phe Ser Pro Pro
 65 70 75 80
 Gly Gln Thr Gln Thr Gln Thr Leu Gly Gly Trp Asn Gly Gly Gln Gly
 85 90 95
 Ser Met Gly Asp Val Gly Met Lys Val Gly Ala Gly Gly Ala Gly Gly
 100 105 110
 Pro Gly Thr Trp Met Gly Val Asp Arg Pro Phe Ser Leu Glu Ala Arg
 115 120 125
 Ser Ala Ala Leu Ala Gly Ser Glu Ala Pro Gly Thr Thr Ser Phe Pro
 130 135 140
 Asp Phe Pro Val Trp Ser Val
 145 150

<210> 2239

<211> 456

<212> PRT

<213> Homo sapiens

<400> 2239

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Met Glu Ala Leu Gly Asp Leu Glu Gly Pro Arg Ala Pro Gly Gly Asp
 1             5             10             15
Asp Pro Ala Gly Ser Ala Gly Glu Thr Pro Gly Trp Leu Ser Arg Glu
      20             25             30
Gln Val Phe Val Leu Ile Ser Ala Ala Ser Val Asn Leu Gly Ser Met
      35             40             45
Met Cys Tyr Ser Ile Leu Gly Pro Phe Phe Pro Lys Glu Ala Glu Lys
      50             55             60
Lys Gly Ala Ser Asn Thr Ile Ile Gly Met Ile Phe Gly Cys Phe Ala
 65             70             75             80
Leu Phe Glu Leu Leu Ala Ser Leu Val Phe Gly Asn Tyr Leu Val His
      85             90             95
Ile Gly Ala Lys Phe Met Phe Val Ala Arg Met Phe Val Ser Gly Gly
      100            105            110
Val Thr Ile Leu Phe Gly Val Leu Asp Arg Val Pro Asp Gly Pro Val
      115            120            125
Phe Ile Ala Met Cys Phe Leu Val Arg Val Met Asp Ala Val Ser Phe
      130            135            140
Ala Ala Ala Met Thr Ala Ser Ser Ser Ile Leu Ala Lys Ala Phe Pro
 145            150            155            160
Asn Asn Val Ala Thr Val Leu Gly Ser Leu Glu Thr Phe Ser Gly Leu
      165            170            175
Gly Leu Ile Leu Gly Pro Pro Val Gly Gly Phe Leu Tyr Gln Ser Phe
      180            185            190
Gly Tyr Glu Val Pro Phe Ile Val Leu Gly Cys Val Val Leu Leu Met
      195            200            205
Val Pro Leu Asn Met Tyr Ile Leu Pro Asn Tyr Glu Ser Asp Pro Gly
      210            215            220

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Glu His Ser Phe Trp Lys Leu Ile Ala Leu Pro Lys Val Gly Leu Ile
 225 230 235 240
 Ala Phe Val Ile Asn Ser Leu Ser Ser Cys Phe Gly Phe Leu Asp Pro
 245 250 255
 Thr Leu Ser Leu Phe Val Leu Glu Lys Phe Asn Leu Pro Ala Gly Tyr
 260 265 270
 Val Gly Leu Val Phe Leu Gly Met Ala Leu Ser Tyr Ala Ile Ser Ser
 275 280 285
 Pro Leu Phe Gly Leu Leu Ser Asp Lys Arg Pro Pro Leu Arg Lys Trp
 290 295 300
 Leu Leu Val Phe Gly Asn Leu Ile Thr Ala Gly Cys Tyr Met Leu Leu
 305 310 315 320
 Gly Pro Val Pro Ile Leu His Ile Lys Ser Gln Leu Trp Leu Leu Val
 325 330 335
 Leu Ile Leu Val Val Ser Gly Leu Ser Ala Gly Met Ser Ile Ile Pro
 340 345 350
 Thr Phe Pro Glu Ile Leu Ser Cys Ala His Glu Asn Gly Phe Glu Glu
 355 360 365
 Gly Leu Ser Thr Leu Gly Leu Val Ser Gly Leu Phe Ser Ala Met Trp
 370 375 380
 Ser Ile Gly Ala Phe Met Gly Pro Thr Leu Gly Gly Phe Leu Tyr Glu
 385 390 395 400
 Lys Ile Gly Phe Glu Trp Ala Ala Ala Ile Gln Gly Leu Trp Ala Leu
 405 410 415
 Ile Ser Gly Leu Ala Met Gly Leu Phe Tyr Leu Leu Glu Tyr Ser Arg
 420 425 430
 Arg Lys Arg Ser Lys Ser Gln Asn Ile Leu Ser Thr Glu Glu Glu Arg
 435 440 445
 Thr Thr Leu Leu Pro Asn Glu Thr
 450 455

<210> 2240

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2240

Met Val Met Val Gly Ala Thr Ser Leu Gly Ala Tyr Gly Gly Glu Arg
 1 5 10 15
 Arg Ser Trp Val Pro Ser Ala His His Leu Gly Glu Gly Leu Val Pro
 20 25 30
 Asp Pro Thr Ser Gly Phe Val Cys Gln Pro Gly Ala Phe Phe Ser Pro
 35 40 45
 Tyr Leu Leu Asp Tyr Phe Ile Thr Leu Phe Leu Pro Glu Met His Leu
 50 55 60
 Leu Leu Asp Trp Ser Arg Ser Lys Pro Cys Ser Phe Thr Glu Ala Leu
 65 70 75 80
 Pro Val Gly Ile Ser Cys Arg Ile Pro Pro Ser Arg Asp Gln Ser Val
 85 90 95
 Leu Trp Leu Phe His Lys
 100

<210> 2241

<211> 136

<212> PRT

<213> Homo sapiens

<400> 2241

Met Ser Ala Gly Glu Pro Ala Ala Ala Pro Asn Leu Asp Glu Glu Arg
 1 5 10 15
 Asn Leu Val Ala Val Pro Ala Glu Lys Pro His Gly Ser Pro His Ile
 20 25 30
 Ser Thr Met Val Pro Gly Phe Ser His Pro His Arg Pro Arg Leu Leu
 35 40 45
 Pro Ser His Pro Arg Pro Glu Thr Gln Lys Ala Leu Asp Arg Ala Ala
 50 55 60
 Ser Ser Gly Ile Trp Thr Gly Leu Arg Tyr Leu Leu Pro Ala Pro Gln
 65 70 75 80
 Ser Ala Ile Arg His Ile His Pro Arg Gly Thr Arg Cys Ser Phe Arg
 85 90 95

Gly Cys Leu Gln Gly Met Glu Asp Ser His Arg Arg Leu Leu Thr Ser
 100 105 110
 His Ala Gln Val Ser Pro Arg Cys His Val Gln Ser Glu Pro Phe Leu
 115 120 125
 Ala His Val Pro Val Leu Val Ala
 130 135

<210> 2242

<211> 148

<212> PRT

<213> Homo sapiens

<400> 2242

Met Gly Leu Arg Pro Pro Gly Asn Asn His Arg Ala Cys Ser Ser Ala
 1 5 10 15
 Pro Ala Ser Pro Glu Ser His Pro Arg Asp Gln Pro His Pro Gln His
 20 25 30
 Asn Cys Pro Ala Gly Glu Ala Pro Trp Ala Trp Arg Gly Phe Pro Asp
 35 40 45
 Thr Ala His Pro Gly Pro Ala Ser Ser Thr Lys Thr Glu Thr Leu Ala
 50 55 60
 Thr His Gly Gly Trp Gly Pro Gly Val Leu Arg Arg Gly Tyr Pro Gly
 65 70 75 80
 Pro Arg Pro Glu Ile His Gln Leu His Pro Arg Gly Gly Thr Ala Asp
 85 90 95
 Gly Ser Gln His Gln Gln Asp Pro Arg Ala Pro Arg Thr Glu Val Cys
 100 105 110
 Pro Thr His Phe Leu Pro Thr Thr Cys Ala Pro Glu Ser Arg Ala Cys
 115 120 125
 Pro Gly Arg Trp Arg Pro Gly Val Glu Cys Thr Cys Ser His Glu Val
 130 135 140
 Leu Gly Val Phe
 145

<210> 2243

<211> 539

<212> PRT

<213> Homo sapiens

<400> 2243

```

Met Arg Ile Ser Phe Lys Ala Gly Val Tyr Val Pro His Pro Thr Gly
  1             5             10             15
His Val Thr Phe Ile Thr Leu Trp Trp Asn Glu Lys Lys Gly Ile Trp
      20             25             30
Asp Met Ile Asn Ser Gly Asn Ala Ile Val Cys Leu Arg Gln Gln Arg
      35             40             45
Asp Ser Gly Ser Arg Gly Arg Pro Arg Ala Ser Val Thr Ser Pro Asp
      50             55             60
Cys Arg Val Thr Val Ala Tyr Pro Gly Gly Ala Thr Arg Pro Ala Gly
      65             70             75             80
Lys Met Thr Ser Pro Ser Glu Leu Leu Gln Thr Ser Ala Arg Ser Gly
      85             90             95
Ser Trp Arg Ala Gly Gly Gly Trp Glu Thr Ser Arg Ala His Gly Thr
      100            105            110
Asp Arg Arg Gln Lys Pro Gly Gly Val Arg Trp Ala Pro Asp Pro Cys
      115            120            125
Pro Pro Ser Ser Arg Ala Ala Pro Gly Gly Pro Ala Pro Ser Val Asn
      130            135            140
Ala Ala Gly Arg Pro Ile Arg Ala Gly Arg Gly Ala Ala Gln Pro Ile
      145            150            155            160
Ser Gly Gln Ser Ser Arg Ala Leu Pro Arg Ser Arg Ala Leu Pro Arg
      165            170            175
Ser Arg Glu Leu Pro Ala Arg Cys Arg Arg Asp Trp Glu Arg Ala Pro
      180            185            190
Gln Arg Thr Leu Ala Arg Gly Ser Ala Gln Ser Val Cys Glu Asp Pro
      195            200            205
Ala Arg Arg Pro Pro Gly Asp Pro Met Ala Ser Glu Gly Leu Ala Gly
      210            215            220
Ala Leu Ala Ser Val Leu Ala Gly Gln Gly Ser Ser Val His Ser Cys
      225            230            235            240

```


Leu Gln Gly Ser Ser Val Val Pro Val Asn Arg
 530 535

<210> 2244

<211> 434

<212> PRT

<213> Homo sapiens

<400> 2244

Met Glu Ala Gly Ala Gly Ala Gly Ala Gly Ala Ala Gly Trp Ser Cys
 1 5 10 15
 Pro Gly Pro Gly Pro Thr Val Thr Thr Leu Gly Ser Tyr Glu Ala Ser
 20 25 30
 Glu Gly Cys Glu Arg Lys Lys Gly Gln Arg Trp Gly Ser Leu Glu Arg
 35 40 45
 Arg Gly Met Gln Ala Met Glu Gly Glu Val Leu Leu Pro Ala Leu Tyr
 50 55 60
 Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Val Glu Glu Glu
 65 70 75 80
 Glu Glu Gln Val Gln Lys Gly Gly Ser Val Gly Ser Leu Ser Val Asn
 85 90 95
 Lys His Arg Gly Leu Ser Leu Thr Glu Thr Glu Leu Glu Glu Leu Arg
 100 105 110
 Ala Gln Val Leu Gln Leu Val Ala Glu Leu Glu Glu Thr Arg Glu Leu
 115 120 125
 Ala Gly Gln His Glu Asp Asp Ser Leu Glu Leu Gln Gly Leu Leu Glu
 130 135 140
 Asp Glu Arg Leu Ala Ser Ala Gln Gln Ala Glu Val Phe Thr Lys Gln
 145 150 155 160
 Ile Gln Gln Leu Gln Gly Glu Leu Arg Ser Leu Arg Glu Glu Ile Ser
 165 170 175
 Leu Leu Glu His Glu Lys Glu Ser Glu Leu Lys Glu Ile Glu Gln Glu
 180 185 190
 Leu His Leu Ala Gln Ala Glu Ile Gln Ser Leu Arg Gln Ala Ala Glu

195	200	205
Asp Ser Ala Thr Glu His Glu Ser Asp Ile Ala Ser Leu Gln Glu Asp		
210	215	220
Leu Cys Arg Met Gln Asn Glu Leu Glu Asp Met Glu Arg Ile Arg Gly		
225	230	235
Asp Tyr Glu Met Glu Ile Ala Ser Leu Arg Ala Glu Met Glu Met Lys		
245	250	255
Ser Ser Glu Pro Ser Glu Glu Leu Gln Glu Leu Arg Glu Arg Tyr His		
260	265	270
Phe Leu Asn Glu Glu Tyr Arg Ala Leu Gln Glu Ser Asn Ser Ser Leu		
275	280	285
Thr Gly Gln Leu Ala Asp Leu Glu Ser Glu Arg Thr Gln Arg Ala Thr		
290	295	300
Glu Arg Trp Leu Gln Ser Gln Thr Leu Ser Met Thr Ser Ala Glu Ser		
305	310	315
Gln Thr Ser Glu Met Asp Phe Leu Glu Pro Asp Pro Glu Met Gln Leu		
325	330	335
Leu Arg Gln Gln Leu Arg Asp Ala Glu Glu Gln Met His Gly Met Lys		
340	345	350
Asn Lys Cys Gln Glu Leu Cys Cys Glu Leu Glu Glu Leu Gln His His		
355	360	365
Arg Gln Val Ser Glu Glu Glu Gln Arg Arg Leu Gln Arg Glu Leu Lys		
370	375	380
Cys Ala Gln Asn Glu Val Leu Arg Phe Gln Thr Ser His Ser Val Thr		
385	390	395
Gln Ser Ser Pro Thr Pro Asn Pro Pro Ile Phe Ser Leu Pro Leu Val		
405	410	415
Gly Leu Val Val Ile Ser Ala Leu Leu Trp Cys Trp Trp Ala Glu Thr		
420	425	430
Ser Ser		

<210> 2245

<211> 361

<212> PRT

<213> Homo sapiens

<400> 2245

```

Met Ser Thr Ala Arg Glu Gln Pro Ile Phe Ser Thr Arg Ala His Val
  1             5             10            15
Phe Gln Ile Asp Pro Ala Thr Lys Arg Asn Trp Ile Pro Ala Gly Lys
      20             25             30
His Ala Leu Thr Val Ser Tyr Phe Tyr Asp Ala Thr Arg Asn Val Tyr
      35             40             45
Arg Ile Ile Ser Ile Gly Gly Ala Lys Ala Ile Ile Asn Ser Thr Val
      50             55             60
Thr Pro Asn Met Thr Phe Thr Lys Thr Ser Gln Lys Phe Gly Gln Trp
      65             70             75             80
Ala Asp Ser Arg Ala Asn Thr Val Tyr Gly Leu Gly Phe Ala Ser Glu
      85             90             95
Gln His Leu Thr Gln Phe Ala Glu Lys Phe Gln Glu Val Lys Glu Ala
      100            105            110
Ala Arg Leu Ala Arg Glu Lys Ser Gln Asp Gly Gly Glu Leu Thr Ser
      115            120            125
Pro Ala Leu Gly Leu Ala Ser His Gln Val Pro Pro Ser Pro Leu Val
      130            135            140
Ser Ala Asn Gly Pro Gly Glu Glu Lys Leu Phe Arg Ser Gln Ser Ala
      145            150            155            160
Asp Ala Pro Gly Pro Thr Glu Arg Glu Arg Leu Lys Lys Met Leu Ser
      165            170            175
Glu Gly Ser Val Gly Glu Val Gln Trp Glu Ala Glu Phe Phe Ala Leu
      180            185            190
Gln Asp Ser Asn Asn Lys Leu Ala Gly Ala Leu Arg Glu Ala Asn Ala
      195            200            205
Ala Ala Ala Gln Trp Arg Gln Gln Leu Glu Ala Gln Arg Ala Glu Ala
      210            215            220
Glu Arg Leu Arg Gln Arg Val Ala Glu Leu Glu Ala Gln Ala Ala Ser
      225            230            235            240
Glu Val Thr Pro Thr Gly Glu Lys Glu Gly Leu Gly Gln Gly Gln Ser
      245            250            255
Leu Glu Gln Leu Glu Ala Leu Val Gln Thr Lys Asp Gln Glu Ile Gln

```

260 265 270
 Thr Leu Lys Ser Gln Thr Gly Gly Pro Arg Glu Ala Leu Glu Ala Ala
 275 280 285
 Glu Arg Glu Glu Thr Gln Gln Lys Val Gln Asp Leu Glu Thr Arg Asn
 290 295 300
 Ala Glu Leu Glu His Gln Leu Arg Ala Met Glu Arg Ser Leu Glu Glu
 305 310 315 320
 Ala Arg Ala Glu Arg Glu Arg Ala Arg Ala Glu Val Gly Arg Ala Ala
 325 330 335
 Gln Leu Leu Asp Val Arg Leu Phe Glu Leu Ser Glu Leu Arg Glu Gly
 340 345 350
 Leu Ala Arg Leu Ala Glu Ala Ala Pro
 355 360

<210> 2246

<211> 170

<212> PRT

<213> Homo sapiens

<400> 2246

Met Ala Gly Thr Leu Leu Ser Pro Pro Ser Gly Val Pro Leu Glu Arg
 1 5 10 15
 Leu Ile Arg Val Ala Thr Glu Arg Gly Tyr Thr Ala Gln Gly Glu Met
 20 25 30
 Phe Ser Val Ala Asp Met Gly Arg Leu Ala Gln Glu Val Leu Gly Cys
 35 40 45
 Gln Ala Lys Leu Leu Ser Gly Gly Leu Gly Gly Pro Asn Arg Asp Leu
 50 55 60
 Val Leu Gln His Leu Val Thr Gly His Pro Leu Leu Ile Pro Tyr Asp
 65 70 75 80
 Glu Asp Phe Asn His Glu Pro Cys Gln Arg Lys Gly His Lys Ala His
 85 90 95
 Trp Ala Gly Ser Cys Trp Val Phe Gly Leu Cys Pro Val Ser Ala Thr
 100 105 110
 Leu Arg Thr Leu Ser Cys Arg Ala Cys Ser Thr Gln Cys Trp Ala Arg

115	120	125
Pro Ala Asn His His Pro Cys Gln Arg Arg Ala Pro Arg Glu Leu Ser		
130	135	140
Thr Cys Cys Pro Ser Arg Ala Arg Val Gly Thr Ile Ser Cys Gly Thr		
145	150	155
Thr Thr Arg Ser Gly Arg Ala Thr Cys Ser		
165	170	

<210> 2247

<211> 317

<212> PRT

<213> Homo sapiens

<400> 2247

Met Arg Lys Thr Ser Asn Ser Cys Ile Met Glu Asn Gly His Gln Pro		
1	5	10
Gly Thr Gly Pro Gly Asp Gly Pro Pro Glu Ile Ala Gln Asn Phe Ser		
20	25	30
Ala Pro Asp Pro Pro Arg Pro Arg Pro Val Ser Leu Ser Leu Arg Leu		
35	40	45
Pro His Gln Pro Val Thr Ala Ile Thr Arg Val Ser Asp Arg Phe Ser		
50	55	60
Gly Glu Thr Ser Ala Ala Ala Leu Ser Pro Met Ser Ala Ala Thr Leu		
65	70	75
Gly Gly Leu Asn Pro Ser Pro Ser Glu Val Ile Thr Pro Trp Thr Pro		
85	90	95
Ser Pro Ser Glu Lys Asn Ser Ser Phe Thr Trp Ser Val Pro Ser Ser		
100	105	110
Gly Tyr Gly Ala Val Thr Ala Ser Lys His Ser Asn Ser Pro Pro Leu		
115	120	125
Val Thr Pro Pro Gln Ser Pro Val Ser Pro Gln Pro Pro Ala Ile Thr		
130	135	140
Gln Val His Arg Gln Gly Glu Arg Arg Arg Glu Leu Val Arg Ser Gln		
145	150	155
Thr Leu Pro Arg Thr Ser Glu Ala Gln Ala Arg Lys Ala Leu Phe Glu		

165	170	175
Lys Trp Glu Gln Glu Thr Ala Ala Gly Lys Gly Lys Gly Glu Ala Arg		
180	185	190
Ala Arg Leu Lys Arg Ser Gln Ser Phe Gly Val Ala Ser Ala Ser Ser		
195	200	205
Ile Lys Gln Ile Leu Leu Glu Trp Cys Arg Ser Lys Thr Leu Gly Tyr		
210	215	220
Gln His Val Asp Leu Gln Asn Phe Ser Ser Ser Trp Ser Asp Gly Met		
225	230	235
Ala Phe Cys Ala Leu Val His Ser Phe Phe Pro Asp Ala Phe Asp Tyr		
245	250	255
Asn Ser Leu Ser Pro Thr Gln Arg Gln Lys Asn Phe Glu Leu Ala Phe		
260	265	270
Thr Met Ala Glu Asn Leu Ala Asn Cys Glu Arg Leu Ile Glu Val Glu		
275	280	285
Asp Met Met Val Met Gly Arg Lys Pro Asp Pro Met Cys Val Phe Thr		
290	295	300
Tyr Val Gln Ser Leu Tyr Asn His Leu Arg Arg Phe Glu		
305	310	315

<210> 2248

<211> 562

<212> PRT

<213> Homo sapiens

<400> 2248

Met Gly Lys Asp Gln Glu Leu Leu Glu Ala Ala Arg Thr Gly Asn Val
1 5 10 15
Ala Leu Val Glu Lys Leu Leu Ser Gly Arg Lys Gly Gly Ile Leu Gly
20 25 30
Gly Gly Ser Gly Pro Leu Pro Leu Ser Asn Leu Leu Ser Ile Trp Arg
35 40 45
Gly Pro Asn Val Asn Cys Thr Asp Ser Ser Gly Tyr Thr Ala Leu His
50 55 60
His Ala Ala Leu Asn Gly His Lys Asp Ile Val Leu Lys Leu Leu Gln

65	70	75	80
Tyr Glu Ala Ser Thr Asn Val Ala Asp Asn Lys Gly Tyr Phe Pro Ile			
	85	90	95
His Leu Ala Ala Trp Lys Gly Asp Val Glu Ile Val Lys Ile Leu Ile			
	100	105	110
His His Gly Pro Ser His Ser Arg Val Asn Glu Gln Asn Asn Glu Asn			
	115	120	125
Glu Thr Ala Leu His Cys Ala Ala Gln Tyr Gly His Ser Glu Val Val			
	130	135	140
Ala Val Leu Leu Glu Glu Leu Thr Asp Pro Thr Ile Arg Asn Ser Lys			
145	150	155	160
Leu Glu Thr Pro Leu Asp Leu Ala Ala Leu Tyr Gly Arg Leu Arg Val			
	165	170	175
Val Lys Met Ile Ile Ser Ala His Pro Asn Leu Met Ser Cys Asn Thr			
	180	185	190
Arg Lys His Thr Pro Leu His Leu Ala Ala Arg Asn Gly His Lys Ala			
	195	200	205
Val Val Gln Val Leu Leu Glu Ala Gly Met Asp Val Ser Cys Gln Thr			
	210	215	220
Glu Lys Gly Ser Ala Leu His Glu Ala Ala Leu Phe Gly Lys Val Asp			
225	230	235	240
Val Val Arg Val Leu Leu Glu Thr Glu Tyr Leu Glu Gly Val Gly Arg			
	245	250	255
Ser Thr Val Pro Glu Glu Pro Val Gln Glu Asp Ala Thr Gln Glu Thr			
	260	265	270
His Ile Ser Ser Pro Val Glu Ser Pro Ser Gln Lys Thr Lys Ser Glu			
	275	280	285
Thr Val Thr Gly Glu Leu Ser Lys Leu Leu Asp Glu Ile Lys Leu Cys			
	290	295	300
Gln Glu Lys Asp Tyr Ser Phe Glu Asp Leu Cys His Thr Ile Ser Asp			
305	310	315	320
His Tyr Leu Asp Asn Leu Ser Lys Ile Ser Glu Glu Glu Leu Gly Lys			
	325	330	335
Asn Gly Ser Gln Ser Val Arg Thr Ser Ser Thr Ile Asn Leu Ser Pro			
	340	345	350
Gly Glu Val Glu Glu Glu Asp Asp Asp Glu Asn Thr Cys Gly Pro Ser			

355	360	365
Gly Leu Trp Glu Ala Leu Thr Pro Cys Asn Gly Cys Arg Asn Leu Gly		
370	375	380
Phe Pro Thr Leu Ala Gln Glu Ser Tyr Pro Lys Lys Arg Asn Tyr Thr		
385	390	395
Met Glu Ile Val Pro Ser Ala Ser Leu Asp Thr Phe Pro Ser Glu Asn		
405	410	415
Glu Asn Phe Leu Cys Asp Leu Met Asp Thr Ala Val Thr Lys Lys Pro		
420	425	430
Cys Ser Leu Glu Ile Ala Arg Ala Pro Ser Pro Arg Thr Asp Asn Ala		
435	440	445
Ser Glu Val Ala Val Thr Thr Pro Gly Thr Ser Asn His Arg Asn Ser		
450	455	460
Ser Thr Gly Pro Thr Pro Asp Cys Ser Pro Pro Ser Pro Asp Thr Ala		
465	470	475
Leu Lys Asn Ile Val Lys Val Ile Arg Pro Gln Pro Lys Gln Arg Thr		
485	490	495
Ser Ile Val Ser Ser Leu Asp Phe His Arg Met Asn His Asn Gln Glu		
500	505	510
Tyr Phe Glu Thr Asn Thr Ser Thr Gly Cys Thr Ser Phe Thr Ala Ser		
515	520	525
Pro Pro Ala Ser Pro Pro Thr Ser Ser Val Gly Thr Thr Glu Val Lys		
530	535	540
Asn Glu Gly Thr Asn His Thr Asp Asp Leu Ser Arg Gln Asp Asp Asn		
545	550	555
Asp Pro		560

<210> 2249

<211> 150

<212> PRT

<213> Homo sapiens

<400> 2249

Met Ser Arg Gly Gly Arg Gly Arg Lys Gly Gly Ser Leu Val Ile Val
 1 5 10 15
 Ala Lys Thr Pro Val Pro Ser Leu Thr Ser Ser Leu Gln Arg Pro Ser
 20 25 30
 Ser Cys Gly Ala Cys Trp Glu Thr Lys Val Gly Phe Arg Pro Leu Ala
 35 40 45
 Met Leu Ser Ser Pro Leu Leu Arg Ser Ala Pro Trp Leu Gln Gly Cys
 50 55 60
 Gly Gly Pro Gln Asn Gln Ala Glu Trp Glu Leu Glu Thr Val Ala Glu
 65 70 75 80
 Gly His Pro Gly Leu Leu Gly Pro Leu Gln Pro Ser Val Ser Thr Ala
 85 90 95
 Leu Ser Pro Ala Gln Gln Thr Ile Val Arg Ala Leu Val Phe Arg Pro
 100 105 110
 Ser His Met Val Gly Pro Lys Arg Ala Pro Tyr Ala His Cys Leu Pro
 115 120 125
 Asp Thr Arg Lys Asn His Val Gly Ile Gly Gly Pro Arg Ala Leu Pro
 130 135 140
 Phe Leu His Pro Ser Ser
 145 150

<210> 2250

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2250

Met Ala Gly Arg Gly Arg Ala Leu Phe Pro Ala Gly Ala Leu Val Leu
 1 5 10 15
 Gly Gln Val Ser Ala Leu Ala Val Gly Ser Asn Ser Pro Ser Gly Gln
 20 25 30
 Ser Arg Asp Gly Ala Thr Leu Gln Asn Ala His Pro Gln Val Glu Ser
 35 40 45
 Trp Val Pro Arg Ala Gln Thr His Pro Ala Pro Pro Gln Thr Trp Ala
 50 55 60

Pro Phe Phe Thr Met His Ser Ser Glu Gln Pro Cys Arg Gln Thr Trp
 65 70 75 80
 Arg Ala Ser Val Leu Ser Ser Cys Glu Gly Leu Cys Leu Gly Pro Trp
 85 90 95
 Arg His Cys Gly Ala Gly Thr Gly Arg Ala Pro Ala Asn Ile Lys Gly
 100 105 110
 Val Val Ser Met Ser Met Gln Gly Cys Leu Ile Ala Val Ser Glu Phe
 115 120 125
 Pro Thr Gly Ser Cys Arg Ala Leu Trp Glu His Thr Leu Phe
 130 135 140

<210> 2251

<211> 119

<212> PRT

<213> Homo sapiens

<400> 2251

Met Asp Ala Cys Thr Arg Thr Glu His Lys Leu Ser Arg Asp Ser Pro
 1 5 10 15
 Ser Asn Lys Leu Leu Tyr Ala Lys Glu Ile Ser Thr Tyr Lys Lys Met
 20 25 30
 Val Glu Asp Tyr Tyr Lys Gly Ile Arg Gln Met Val Gln Val Ser Asp
 35 40 45
 Gln Asp Met Asn Thr His Leu Ala Glu Ile Ser Arg Ala His Thr Asp
 50 55 60
 Ser Leu Asn Thr Leu Val Ala Leu His Gln Leu Tyr Gln Tyr Thr Gln
 65 70 75 80
 Lys Tyr Tyr Asp Glu Ile Ile Asn Ala Leu Glu Glu Asp Pro Ala Ala
 85 90 95
 Gln Lys Met Gln Leu Ala Phe Arg Leu Gln Gln Ile Ala Ala Ala Leu
 100 105 110
 Glu Asn Lys Val Thr Asp Leu
 115

<210> 2252

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2252

```

Met Arg Arg Ala Arg Pro Lys Gly Asp Pro Leu His Ile Pro Ser His
  1             5             10             15
Ala Ser Ala His Cys Ser Pro Gly Pro Ser Val Pro Pro Leu Ala Gly
          20             25             30
Ala Val Ser Leu Ala Trp Glu Leu Met Ala Pro Phe Cys Val Pro Thr
          35             40             45
Gly Ser Phe Arg Ala Arg Leu Arg Pro His His Tyr Arg His Pro Gly
          50             55             60
Gly Thr Asp Phe Leu Leu Cys Gly Arg Leu Pro Pro Ala Val Pro Glu
          65             70             75             80
Gln Glu Pro Gln Trp Leu Leu Arg Pro Trp Gly His Arg Arg Val Leu
          85             90             95
Pro Ser Gly Tyr
          100

```

<210> 2253

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2253

```

Met Lys Thr Phe Ala Leu Phe Asn His Leu Arg Thr His Thr Glu Glu
  1             5             10             15
Arg Ser Leu Asn Thr Trp Tyr Glu Glu Arg Pro Ser Arg Arg Asn Arg
          20             25             30
Phe Leu Ser Ile Thr Lys Lys Phe Thr Val Glu Lys Thr Pro Ala Ser
          35             40             45
Lys Glu Cys Gly Met Val Phe Ser His Leu Ser Tyr Val Arg Lys Leu

```

50 55 60
 Tyr Lys Val Pro Met Gly Lys Arg His Tyr Lys Cys Ser Glu Asn Gly
 65 70 75 80
 Lys Ala Phe Ser Tyr Arg His Pro Leu Leu Arg Lys Ile Thr Arg Glu
 85 90 95
 Phe Thr Arg Glu Leu Trp Ala Thr Asn Val Gly Lys Pro Gln Leu Pro
 100 105 110
 Glu Ser

<210> 2254

<211> 161

<212> PRT

<213> Homo sapiens

<400> 2254

Met Val Leu Val Leu Val Leu Val Val Met Cys Trp His Val Arg Phe
 1 5 10 15
 Leu Phe Ser Phe Pro Leu Leu Ser Ala Ser Thr Phe Cys Ser Leu Arg
 20 25 30
 Leu Pro Thr Glu Tyr Glu Arg Asn Gly Arg Tyr Glu Gly Ser Ser Arg
 35 40 45
 Asn Val Ser Ala Glu Gln Lys Asp Glu Asn Lys Glu Ala Lys Pro Arg
 50 55 60
 Ser Leu Arg Phe Thr Trp Ser Met Lys Thr Thr Ser Ser Met Asp Pro
 65 70 75 80
 Gly Asp Met Met Arg Glu Ile Arg Lys Val Leu Asp Ala Asn Asn Cys
 85 90 95
 Asp Tyr Glu Gln Arg Glu Arg Phe Leu Leu Phe Cys Val His Gly Asp
 100 105 110
 Gly His Ala Glu Asn Leu Val Gln Trp Glu Met Glu Val Cys Lys Leu
 115 120 125
 Pro Arg Leu Ser Leu Asn Gly Val Arg Phe Lys Arg Ile Ser Gly Thr
 130 135 140
 Ser Ile Ala Phe Lys Asn Ile Ala Ser Lys Ile Ala Asn Glu Leu Lys

145 150 155 160
 Leu

<210> 2255

<211> 117

<212> PRT

<213> Homo sapiens

<400> 2255

Met Tyr Lys Val Glu Tyr Leu Phe Thr Ser Gln Cys Ile Arg Asn Leu
 1 5 10 15
 Phe Thr Gln Ala Ile Ile Leu Lys Thr Ala Leu Gln Val Val Cys Glu
 20 25 30
 Thr Phe Pro Glu Phe Ile Ser Thr Ser Ala Leu Ser Val Ala Ser Ser
 35 40 45
 Ile Pro Glu Leu Lys Lys Arg Pro Leu Pro Thr Ala Ser Asn Pro Ala
 50 55 60
 Phe Leu Val Ile Leu Leu Phe Phe Phe Asn Phe Lys Phe Trp Asp Thr
 65 70 75 80
 Cys Ala Glu His Ala Gly Leu Leu His Arg Tyr Thr Cys Ala Tyr Val
 85 90 95
 Tyr Leu Cys Asn Met Val Val Thr Val Asn Met Val Val Tyr Cys Ile
 100 105 110
 Tyr Gln Pro Val Ile
 115

<210> 2256

<211> 121

<212> PRT

<213> Homo sapiens

<400> 2256

Met Met Gly Arg Gly Val Arg Trp Gly Ser Arg Ala Trp Glu Arg Met

```

      1             5             10             15
Ala His Ala Leu Lys Val His Glu Arg Pro Pro Leu Pro Thr Ser Ala
      20             25             30
Glu Thr Ser Leu Asp Thr Lys Ser Val Ser Glu Gly His Leu Lys Arg
      35             40             45
Asn Ile Val Val Lys Thr Val Glu Met Arg Asp Gly Glu Val Arg Arg
      50             55             60
Asp Leu Gly Pro Val Arg Leu Trp Leu Ala Pro Gly Ile Leu Lys Ala
      65             70             75             80
Arg Pro Trp Arg Lys Ala Trp Gly Trp His Ile Glu Gly Ser Gln Gln
      85             90             95
Leu Pro Val Ala Pro Gln Gly Ile Leu Glu Glu Ser Lys Glu Thr Glu
      100            105            110
Cys Asn Ser Val Ser Ser Val Pro Pro
      115            120

```

<210> 2257

<211> 193

<212> PRT

<213> Homo sapiens

<400> 2257

```

Met Pro Gln Ala Glu Leu Gly Ile Gln Val Cys Thr Cys Arg Leu Arg
      1             5             10             15
Gly Ser Val Ser Arg Cys Cys Ser His Arg Glu Phe Arg Arg Gln Pro
      20             25             30
Ser Pro Cys Ala Ala Gly Ile Gly Leu Leu His Leu Gly Ser Thr Ala
      35             40             45
Ser Arg Gln Val Lys Pro Pro Arg Leu Pro Pro Pro Pro Trp Gly Arg
      50             55             60
Ser Gly Glu Lys Leu Pro Phe Thr Pro Phe Pro Gly Cys Ser Leu Ser
      65             70             75             80
Arg Trp His Ala Ser Pro Gln Thr Gln Val Ala Phe Gly Pro Arg Trp
      85             90             95
Val Ser Leu Leu Pro Leu Pro His Thr Pro Ser Gly His Trp Asp Pro

```

100 105 110
 Cys Pro Ser Asp Val Leu Gly Ser Arg Ser Gly Ala Ser His Cys Gly
 115 120 125
 Lys Arg Pro Gly Ala Trp Pro Glu Arg Gln Pro Arg Ala Gly Pro Ser
 130 135 140
 Pro Glu Ser Trp Ser Arg Ala Arg Glu Ala Pro Ile Pro Pro Arg Pro
 145 150 155 160
 Ala Ala Leu Ser Ala Val Ser Ser Ile Cys Ser Ser Phe His Pro Leu
 165 170 175
 Val Gly Pro Pro Ser Pro Phe Pro Leu Pro Leu Val Pro Ser Ala Gly
 180 185 190
 Arg

<210> 2258

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2258

Met Val Phe Gly Phe Pro Phe Leu Ser Tyr Phe Thr Glu Asn Asn Gly
 1 5 10 15
 Leu Gln Leu His Pro Ser Cys Cys Lys Arg His His Phe Val Pro Phe
 20 25 30
 Tyr Gly Cys Val Val Phe His Gly Val Tyr Thr Ser Arg Phe Leu Tyr
 35 40 45
 Leu Leu Ile Gly Arg Trp Ala Leu Lys Leu Ala Pro Cys Ile Cys Asn
 50 55 60
 Cys Glu Leu Cys Cys Cys Lys Arg Val Cys Met Cys Leu Phe His Ile
 65 70 75 80
 Val Thr Ser Phe Pro Leu Thr Arg Leu Gln Ile Ile Leu Arg Gly Tyr
 85 90 95
 Ser Tyr Gln Asn Arg Val Ala Leu Val
 100 105

<210> 2259

<211> 171

<212> PRT

<213> Homo sapiens

<400> 2259

```

Met Leu Arg Val Pro Gly Ser Cys Cys Pro Cys Pro Arg Pro Cys Pro
  1             5             10             15
Pro Leu Ala Leu Gln Ser Pro Thr Pro Met Pro Thr Ser Gly Ser Pro
      20             25             30
Leu Gln Ala Leu Leu Leu Tyr Pro Leu Asp Gln Trp Cys Leu Ala Gly
      35             40             45
Cys Ser Arg Pro Leu Leu Val Gln Pro Gln Leu Pro Lys Gly Asp Ser
      50             55             60
Lys Pro Ser Leu Arg Ala Glu Asp Leu Leu Gly Asp Arg Lys Arg Leu
      65             70             75             80
Gly Ser Leu Ser Gly Ala Ser Ser His Pro Cys Cys Leu Trp Ile Met
      85             90             95
Pro Thr Ala Pro Ile Ser Phe Gln Glu Ala Leu Ala Gln His Lys Thr
      100            105            110
Gly Ser Leu Ser Phe Leu Pro Ser Ser Ser Leu Pro Pro Ser Ser Ile
      115            120            125
Thr Arg Thr Leu Val Thr Thr Gln Asn His Trp Val Val Pro Leu His
      130            135            140
Pro Leu Pro Val Leu Cys His Pro Pro Ser Lys Ala Pro Ala Leu Leu
      145            150            155            160
Cys Pro Ser Thr Gln Gly Ser Leu His Ser Ala
      165            170

```

<210> 2260

<211> 111

<212> PRT

<213> Homo sapiens

<400> 2260

Met Arg Asp Leu Thr Arg Gly His Val Ser Ala Ser Arg Phe Ile Val
 1 5 10 15
 Cys Leu Gly Trp Pro Leu Glu Ala Leu Asp Leu Ile Val Pro Val Trp
 20 25 30
 Lys Phe Leu Asn Ile Glu Asn Ile Ile His Met Met Thr Phe Phe Phe
 35 40 45
 Leu Ser Glu Asp Thr Leu Ile Phe Ala Ile Ala Arg Phe Arg Asn Pro
 50 55 60
 Thr Gln Thr Gly Leu Ser Lys Glu Gly Val Tyr Cys Ser Cys Ser Trp
 65 70 75 80
 Glu Ala Trp Thr Gly Leu Gly Pro Gly Ala Leu Thr Ser Ser Gln Leu
 85 90 95
 Gly Gln Gln Val Glu Arg Gly Leu Leu Leu Pro Ser Gly Cys His
 100 105 110

<210> 2261

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2261

Met Asn Thr Cys Ser Gln Gly Thr Leu His Asp Gln Leu Cys Phe Arg
 1 5 10 15
 Glu Gly Arg Ser Ser Pro Phe Lys Ala Arg Ile Pro Arg Arg Ser Val
 20 25 30
 His Tyr Leu Pro Ser Glu Leu Trp Ala Tyr Leu Tyr Phe Leu His Phe
 35 40 45
 Ser Arg Gln Glu Gly Gly Ser Ser Thr Glu Asn Pro Leu Ser Trp Val
 50 55 60
 Lys Glu His Ser Leu Gly Cys Leu Gly Glu Lys Ile Ser Ile Pro Arg
 65 70 75 80
 Ser Cys Ser Leu Gly Val Arg Trp Glu Gln Arg Arg Gln Ser Val Gly
 85 90 95
 Pro Leu Trp Arg Gln Gln Gly Gly Val Pro Cys Gly His

100

105

<210> 2262

<211> 143

<212> PRT

<213> Homo sapiens

<400> 2262

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Met Arg Ala Gln Ala Asn Ser Gly Lys Phe Leu Ser Pro Arg Ala Glu
  1             5             10             15
His Glu His Leu Glu Ala Lys Gly Ala Ala Trp Leu Leu Pro Thr Lys
      20             25             30
Glu Thr Asp Gly Val Gln Leu Ile Pro Met Phe Leu Leu His Phe Thr
      35             40             45
Pro Lys Phe Pro Ala Arg Ser Lys Ala Ser Pro Gly Thr Leu Val Phe
      50             55             60
Leu Pro Lys Ala Ser Gln Gly His Pro Ala Ile Leu Met Arg Leu Pro
      65             70             75             80
Val Pro Ser Cys Pro Ser Pro His Pro Arg Ile Asn His Gln Arg Arg
      85             90             95
Thr Val Tyr Met Ser Ser Ser Leu Cys Leu Gly Arg Glu Thr Asn Lys
      100            105            110
Arg Met Arg Arg Leu Gly Arg Pro Leu Ala Val Thr Ser Ser Asn Cys
      115            120            125
Pro Cys Gln Gly Phe Met Glu Glu Glu Thr Glu Ala Ala Leu Cys
      130            135            140

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<210> 2263

<211> 197

<212> PRT

<213> Homo sapiens

<400> 2263

Met Ala Leu Asn Asn Phe Leu Phe Ala Gln Cys Ala Cys Tyr Phe Leu
 1 5 10 15
 Ala Phe Leu Phe Ser Phe Val Val Val Val Pro Leu Ser Glu Asn Gly
 20 25 30
 His Asp Phe Arg Gly Arg Cys Leu Leu Phe Thr Glu Gly Met Trp Leu
 35 40 45
 Ser Ala Asn Leu Thr Val Gln Glu Arg Glu Arg Phe Thr Val Gln Glu
 50 55 60
 Trp Gly Pro Pro Ala Ala Cys Arg Phe Ser Leu Leu Ala Ser Leu Leu
 65 70 75 80
 Ser Leu Leu Leu Ala Ala Ala His Ala Trp Arg Thr Leu Phe Phe Leu
 85 90 95
 Cys Lys Gly His Glu Gly Ser Phe Phe Ser Ala Phe Leu Asn Leu Leu
 100 105 110
 Val Ser Ala Phe Val Val Phe Leu Val Phe Ile Ala Ser Thr Ile Val
 115 120 125
 Ser Val Gly Phe Thr Met Trp Cys Asp Thr Ile Thr Glu Lys Gly Thr
 130 135 140
 Val Pro His Ser Cys Glu Glu Leu Gln Asp Ile Asp Leu Glu Leu Gly
 145 150 155 160
 Val Asp Asn Ser Ala Phe Tyr Asp Gln Phe Ala Ile Ala Gln Val Gly
 165 170 175
 Gly Ser Gly Gln Glu Gly Arg Leu Ala Met Leu Gly Gly Gly His Leu
 180 185 190
 Leu Leu Asp Ile Cys
 195

<210> 2264

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2264

Met Gly Asn Val Cys Ser Pro Tyr Ser Arg Cys Leu Cys Leu Thr Leu
 1 5 10 15

Gly Ala Cys Pro Ala Pro Phe Gln Pro Pro Leu Pro Cys Cys Ser Pro
 20 25 30
 Pro Ser Ser Gly Leu Ser Thr Asp Leu Lys Ala Pro Leu Gly Gln Ile
 35 40 45
 Pro Pro Glu Ser Leu Ser His Pro Gln Gly Thr Gln Ala Arg Pro Ser
 50 55 60
 Trp Ser Ser Trp Thr Val Leu Gln Glu Ala Ala Gln Gln Arg Leu Trp
 65 70 75 80
 Asp Gln Gln Cys Gln Thr Thr Val Phe Thr Cys Ser Pro His Gly Val
 85 90 95
 Leu Met Cys Gly Trp Pro Leu Ala Ala Pro Glu Gln
 100 105

<210> 2265

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2265

Met Asn Asn Ser Ser Leu Leu Arg Pro Ser Pro Lys Ala Gln Gly Pro
 1 5 10 15
 Leu Val Ser Ala Val Cys Thr Ser Ser Val Arg Arg Gln Asp Ser Arg
 20 25 30
 Ser Met Lys Arg Ala Gly Gln Lys Thr Pro Thr Leu Ala Gly Arg His
 35 40 45
 Val Pro Leu Lys Ile Lys Lys Glu Ala Ile Trp Glu Gln Cys Ser Ser
 50 55 60
 Tyr Val Arg Pro Gly His Phe Leu Phe Thr Gly Asp Tyr Lys Thr Phe
 65 70 75 80
 Val Leu Ser Ser Leu Asp Val Asp Ala Ile Leu Gly Leu Ser Pro Pro
 85 90 95
 Ala Pro Arg His
 100

<210> 2266

<211> 169

<212> PRT

<213> Homo sapiens

<400> 2266

```

Met Asn Ser Leu His Ala Gly Arg Gln Gln Ala Phe Gln Glu Asp Pro
 1             5             10             15
Gly Pro Thr Gly Leu Gly Lys Asp Thr Ser Ala Gly Arg Arg Thr Arg
      20             25             30
Ser Thr Glu Ala Leu Gln Ser Ala Leu Ser Ala Lys Leu Ile Gly Arg
      35             40             45
Gly Gly Gly Leu Pro Asn Gly Cys Thr Gly Thr Pro Thr Thr Cys His
      50             55             60
Leu Pro Gly Gln Tyr Leu Gly Thr Glu Leu Ser Pro Lys Ser Lys Asn
      65             70             75             80
Ile Ser Lys His Thr Val Glu Lys Trp Arg Leu Glu Val Thr Val His
      85             90             95
Arg Glu Pro Ala Trp Asn Leu Trp Ala Gly Thr Arg Ala Gly Gln Phe
      100            105            110
Gln Thr Arg Gly Ser Arg Lys Gln Thr Gln Pro Arg Pro Leu Pro Arg
      115            120            125
Thr His Leu Leu Pro Pro Pro Thr Pro Arg Arg Pro His Gln Glu Ser
      130            135            140
His Pro Trp Ala Pro Thr Met His Gln Thr Ala His Tyr Cys Arg Arg
      145            150            155            160
Asn Ala Thr Arg Asp Lys Pro Pro Ala
      165

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<210> 2267

<211> 482

<212> PRT

<213> Homo sapiens

<400> 2267

Met	Ala	Thr	Gly	Gly	Gly	Ile	Arg	Ala	Met	Thr	Ser	Leu	Tyr	Gly	Gln
1				5					10					15	
Leu	Ala	Gly	Leu	Lys	Glu	Leu	Gly	Leu	Leu	Asp	Cys	Val	Ser	Tyr	Ile
			20					25					30		
Thr	Gly	Ala	Ser	Gly	Ser	Thr	Trp	Ala	Leu	Ala	Asn	Leu	Tyr	Glu	Asp
			35				40					45			
Pro	Glu	Trp	Ser	Gln	Lys	Asp	Leu	Ala	Gly	Pro	Thr	Glu	Leu	Leu	Lys
			50			55					60				
Thr	Gln	Val	Thr	Lys	Asn	Glu	Leu	Gly	Val	Leu	Ala	Pro	Ser	Gln	Leu
65				70					75					80	
Gln	Arg	Tyr	Arg	Gln	Glu	Leu	Ala	Glu	Arg	Ala	Arg	Leu	Gly	Tyr	Pro
				85				90					95		
Ser	Cys	Phe	Thr	Asn	Leu	Trp	Ala	Pro	Ile	Asn	Glu	Ala	Leu	Leu	His
			100				105					110			
Asp	Glu	Pro	His	Asp	His	Lys	Leu	Ser	Asp	Gln	Arg	Glu	Ala	Leu	Ser
			115			120					125				
His	Gly	Gln	Asn	Pro	Leu	Pro	Ile	Tyr	Cys	Ala	Leu	Asn	Thr	Lys	Gly
			130			135					140				
Gln	Ser	Leu	Thr	Thr	Phe	Glu	Phe	Gly	Glu	Trp	Cys	Glu	Phe	Ser	Pro
145					150				155					160	
Tyr	Glu	Val	Gly	Phe	Pro	Lys	Tyr	Gly	Ala	Phe	Ile	Pro	Ser	Glu	Leu
				165				170					175		
Phe	Gly	Ser	Glu	Phe	Phe	Met	Gly	Gln	Leu	Met	Lys	Arg	Leu	Pro	Glu
			180				185					190			
Ser	Arg	Ile	Cys	Phe	Leu	Glu	Gly	Ile	Trp	Ser	Asn	Leu	Tyr	Ala	Ala
			195			200					205				
Asn	Leu	Gln	Asp	Ser	Leu	Tyr	Trp	Ala	Ser	Glu	Pro	Ser	Gln	Phe	Trp
			210			215				220					
Asp	Arg	Trp	Val	Arg	Asn	Gln	Ala	Asn	Leu	Asp	Lys	Glu	Gln	Val	Pro
225				230				235					240		
Leu	Leu	Lys	Ile	Glu	Glu	Pro	Pro	Ser	Thr	Ala	Gly	Arg	Ile	Ala	Glu
				245				250				255			
Phe	Phe	Thr	Asp	Leu	Leu	Thr	Trp	Arg	Pro	Leu	Ala	Gln	Ala	Thr	His
			260				265					270			
Asn	Phe	Leu	Arg	Gly	Leu	His	Phe	His	Lys	Asp	Tyr	Phe	Gln	His	Pro
			275			280						285			

His Phe Ser Thr Trp Lys Ala Thr Thr Leu Asp Gly Leu Pro Asn Gln
 290 295 300
 Leu Thr Pro Ser Glu Pro His Leu Cys Leu Leu Asp Val Gly Tyr Leu
 305 310 315 320
 Ile Asn Thr Ser Cys Leu Pro Leu Leu Gln Pro Thr Arg Asp Val Asp
 325 330 335
 Leu Ile Leu Ser Leu Asp Tyr Asn Leu His Gly Ala Phe Gln Gln Leu
 340 345 350
 Gln Leu Leu Gly Arg Phe Cys Gln Glu Gln Gly Ile Pro Phe Pro Pro
 355 360 365
 Ile Ser Pro Ser Pro Glu Glu Gln Leu Gln Pro Arg Glu Cys His Thr
 370 375 380
 Phe Ser Asp Pro Thr Cys Pro Gly Ala Pro Ala Val Leu His Leu Pro
 385 390 395 400
 Leu Val Ser Asp Ser Phe Arg Glu Tyr Ser Ala Pro Gly Val Arg Arg
 405 410 415
 Thr Pro Glu Glu Ala Ala Ala Gly Glu Val Asn Leu Ser Ser Ser Asp
 420 425 430
 Ser Pro Tyr His Tyr Thr Lys Val Thr Tyr Ser Gln Glu Asp Val Asp
 435 440 445
 Lys Leu Leu His Leu Thr His Tyr Asn Val Cys Asn Asn Gln Glu Gln
 450 455 460
 Leu Leu Glu Ala Leu Arg Gln Ala Val Gln Arg Arg Arg Gln Arg Arg
 465 470 475 480
 Pro His

<210> 2268

<211> 520

<212> PRT

<213> Homo sapiens

<400> 2268

Met Asn Tyr Lys Gln Lys Asp Leu Asp Asn Phe Thr Ser Lys Gly Lys
 1 5 10 15

His Leu Leu Ser Glu Leu Lys Lys Ile His Ser Ser Asp Phe Ser Leu
 20 25 30
 Val Lys Thr Asp Met Glu Ser Thr Val Asp Lys Trp Leu Asp Val Ser
 35 40 45
 Glu Lys Leu Glu Glu Asn Met Asp Arg Leu Arg Val Ser Leu Ser Ile
 50 55 60
 Trp Asp Asp Val Leu Ser Thr Arg Asp Glu Ile Glu Gly Trp Ser Asn
 65 70 75 80
 Asn Cys Val Pro Gln Met Ala Glu Asn Ile Ser Asn Leu Asp Asn His
 85 90 95
 Leu Arg Ala Glu Glu Leu Leu Lys Glu Phe Glu Ser Glu Val Lys Asn
 100 105 110
 Lys Ala Leu Arg Leu Glu Glu Leu His Ser Lys Val Asn Asp Leu Lys
 115 120 125
 Glu Leu Thr Lys Asn Leu Glu Thr Pro Pro Asp Leu Gln Phe Ile Glu
 130 135 140
 Ala Asp Leu Met Gln Lys Leu Glu His Ala Lys Glu Ile Thr Glu Val
 145 150 155 160
 Ala Lys Gly Thr Leu Lys Asp Phe Thr Ala Gln Ser Thr Gln Val Glu
 165 170 175
 Lys Phe Ile Asn Asp Ile Thr Thr Trp Phe Thr Lys Val Glu Glu Ser
 180 185 190
 Leu Met Asn Cys Ala Gln Asn Glu Thr Cys Glu Ala Leu Lys Lys Val
 195 200 205
 Lys Asp Ile Gln Lys Glu Leu Gln Ser Gln Gln Ser Asn Ile Ser Ser
 210 215 220
 Thr Gln Glu Asn Leu Asn Ser Leu Cys Arg Lys Tyr His Pro Ala Glu
 225 230 235 240
 Leu Glu Ser Leu Gly Arg Ala Met Thr Gly Leu Ile Lys Lys His Glu
 245 250 255
 Ala Val Ser Gln Leu Cys Ser Lys Thr Gln Ala Ser Leu Gln Glu Ser
 260 265 270
 Leu Glu Lys His Phe Ser Glu Ser Met Gln Glu Phe Gln Glu Trp Phe
 275 280 285
 Leu Gly Ala Lys Ala Ala Ala Lys Glu Ser Ser Asp Arg Thr Gly Asp
 290 295 300

Ser	Lys	Val	Leu	Glu	Ala	Lys	Leu	His	Asp	Leu	Gln	Asn	Ile	Leu	Asp		
305			310						315				320				
Ser	Val	Ser	Asp	Gly	Gln	Ser	Lys	Leu	Asp	Ala	Val	Thr	Gln	Glu	Gly		
			325						330				335				
Gln	Thr	Leu	Tyr	Ala	His	Leu	Ser	Lys	Gln	Ile	Val	Ser	Ser	Ile	Gln		
			340						345				350				
Glu	Gln	Ile	Thr	Lys	Ala	Asn	Glu	Glu	Phe	Gln	Ala	Phe	Leu	Lys	Gln		
355			360						365								
Cys	Leu	Lys	Asp	Lys	Gln	Ala	Leu	Gln	Asp	Cys	Ala	Ser	Glu	Leu	Gly		
370			375						380								
Ser	Phe	Glu	Asp	Gln	His	Arg	Lys	Leu	Asn	Leu	Trp	Ile	His	Glu	Met		
385			390						395				400				
Glu	Glu	Arg	Phe	Asn	Thr	Glu	Asn	Leu	Gly	Glu	Ser	Lys	Gln	His	Ile		
			405						410				415				
Pro	Glu	Lys	Lys	Asn	Glu	Val	His	Lys	Val	Glu	Met	Phe	Leu	Gly	Glu		
			420						425				430				
Leu	Leu	Ala	Ala	Arg	Glu	Ser	Leu	Asp	Glu	Leu	Ser	Gln	Arg	Gly	Gln		
435			440						445								
Leu	Leu	Ser	Glu	Glu	Gly	His	Gly	Ala	Gly	Gln	Glu	Gly	Arg	Leu	Cys		
450			455						460								
Ser	Gln	Leu	Leu	Thr	Ser	His	Gln	Asn	Leu	Leu	Arg	Met	Thr	Lys	Glu		
465			470						475				480				
Lys	Leu	Arg	Ser	Cys	Gln	Val	Ala	Leu	Gln	Glu	His	Glu	Ala	Leu	Glu		
			485						490				495				
Glu	Ala	Leu	Gln	Ser	Met	Trp	Phe	Trp	Val	Lys	Ala	Ile	Gln	Asp	Arg		
			500						505				510				
Leu	Ala	Cys	Ala	Val	Phe	Thr	Pro										
515			520														

<210> 2269

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2269

Met Ile Val Ser Ser Gln Gln Asp Leu Val Lys Cys Val Ala Thr His
 1 5 10 15
 Pro Arg Cys Ser His Asp Ser Glu Leu Ser Gly Asp Leu Val Lys Cys
 20 25 30
 Val Glu Thr Pro Pro Cys Cys Ser His Glu Ser Glu Pro Arg Glu Thr
 35 40 45
 Trp Leu Ser Val Gln His Leu Pro Leu Ala Val Leu Ile Thr Val Ser
 50 55 60
 Cys His Glu Ile Trp Leu Phe Arg Ser Val Trp His Leu Pro Leu Cys
 65 70 75 80
 Cys Ser His Asp Ser Glu Leu Ser Arg Asp Leu Val Lys His Val Ala
 85 90 95
 Ser Pro Pro Ser Leu Ser Leu Pro Pro Ala Leu Ala Met
 100 105

<210> 2270

<211> 103

<212> PRT

<213> Homo sapiens

<400> 2270

Met Cys Pro Thr Cys Ala Leu Arg Val Val Pro Gly Leu Ala Arg Ala
 1 5 10 15
 Gln Cys Ser Ser Ser Pro Ser Ser Leu Phe Pro Pro Leu Met Lys His
 20 25 30
 Thr Ala Cys Pro Ser His Val Pro Val Gly Arg Arg Thr Leu Leu Pro
 35 40 45
 Arg Pro Glu Arg Val His Met Met Cys Ser Met His Ser Pro Cys Pro
 50 55 60
 Pro Ala Arg Pro Ala Glu Asp Lys Met Gly Gly Pro Gly Ser Leu Ser
 65 70 75 80
 Pro Asn Arg Pro Cys Pro Leu Cys Ser Arg Val Arg Trp Arg Val Phe
 85 90 95
 Leu Cys His Trp Arg Val Thr
 100

<210> 2271

<211> 103

<212> PRT

<213> Homo sapiens

<400> 2271

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Met Arg Gln Ser Leu Val Leu Ser Pro Lys Leu Glu Cys Ser Gly Thr
  1             5             10             15
Ile Ser Gly His Cys Asn His Arg Leu Pro Cys Ser Asn Asn Ser Pro
      20             25             30
Ala Ser Ala Pro Arg Val Ala Gly Ile Thr Ser Val Cys His His Ala
      35             40             45
Gln Leu Ile Phe Val Phe Leu Val Glu Thr Gly Phe Tyr His Val Gly
      50             55             60
Gln Ala Gly Leu Glu Leu Leu Thr Ser Ser Asp Leu Pro Ser Ser Ala
      65             70             75             80
Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His His Thr Trp Pro Lys
      85             90             95
Leu Val Tyr Ile Arg Thr Arg
      100

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<210> 2272

<211> 152

<212> PRT

<213> Homo sapiens

<400> 2272

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Met Ile Leu Gly Met Gly Leu Trp Ile Asp Pro Pro Arg Asp Glu Lys
  1             5             10             15
Ala Gly Arg Ile Cys Gln Gln Arg His Gly Ala Asp Pro Ala Arg Cys
      20             25             30
Pro Arg Ala Val Pro Ser Ala Gln Arg Gly Ala Val His His Pro Gly
      35             40             45

```

Tyr Trp Asn Pro Leu Pro Arg Ile Phe Phe Ser Pro Ser Thr Thr Ala
 50 55 60
 Glu Asn Gln Ser Ala Arg Pro Ser Pro Val Arg Cys Leu His Ser Gly
 65 70 75 80
 Thr Ser Ala Leu Thr Ser Cys Lys Pro Asn Leu Thr Phe Thr Gly Ser
 85 90 95
 Lys Ile Ser Ile Ser Gly Ser Gln Trp Ser Asp Pro Thr Ser Pro Pro
 100 105 110
 Ser Gln Gly Gln Thr Thr Glu Glu Trp Ser Tyr Leu Val Phe Leu His
 115 120 125
 Phe Pro Ala Lys Gly Lys Met Val Leu Pro Ala Lys Leu Ser Leu Gln
 130 135 140
 Pro Gly Gly Ala Ser Ile Lys Val
 145 150

<210> 2273

<211> 164

<212> PRT

<213> Homo sapiens

<400> 2273

Met Ala Pro Trp Ser Tyr Phe Leu Ser Gln Thr Phe Ser His Ser Phe
 1 5 10 15
 Asp Leu Ile Gln Asp Phe Lys Ile Leu Lys Ser Ser Pro Ala Lys Gly
 20 25 30
 Arg Met Gly Gly His Val Asn Asp Lys Gln Arg Arg Thr Leu Val Asn
 35 40 45
 Asp Lys Asp Arg Phe Leu Pro Val Met His Tyr Cys Asn Gln Glu Arg
 50 55 60
 Ser Pro Ala Arg Ala Asp Phe Asp Leu Cys Arg Gly Asp Trp Val Leu
 65 70 75 80
 Ser Arg Glu Asn Glu Gly Thr Arg Cys Gly Gly Ser Cys Met Pro Val
 85 90 95
 Ile Pro Ala Leu Trp Glu Ala Asp Val Val Gly Ser Leu Gly Ile Gly
 100 105 110

Ser Leu Arg Pro Ala Trp Leu Thr Phe Phe Phe Pro Ser Leu Pro Lys
 115 120 125
 Lys Thr Lys Asn Lys Asn Trp Pro Ala Ala Val Ala Arg Pro Val Val
 130 135 140
 Pro Ala Thr Arg Gly Ala Glu Val Gly Glu Leu Leu Gly Pro Gly Arg
 145 150 155 160
 Arg Arg Leu Arg

<210> 2274

<211> 121

<212> PRT

<213> Homo sapiens

<400> 2274

Met Pro Leu Ser Arg Arg Ser Gly Asp Ser Pro Ala Pro Arg Ile Pro
 1 5 10 15
 Gly Trp Arg Asp Ala Ser Arg Pro Arg Gly Leu Val Ala Arg Ala Gly
 20 25 30
 Arg Arg Thr Arg Arg Arg Ala Leu Pro Gly Leu Ala Trp Ala Cys Ser
 35 40 45
 Glu Pro Gly Cys Phe Ser Val Thr Thr Gln Ile Gly Gly Ile Trp Arg
 50 55 60
 Phe Cys Gly Ser Pro Ala Ala Lys Leu Arg Gly Arg Arg Gly Leu Glu
 65 70 75 80
 Ala Cys Thr Thr Cys Ser Pro Arg Pro Ser Met His Pro Gly Trp Asn
 85 90 95
 Ala Val Val Gln Thr Arg Leu Ala Ala Ala Phe Thr Ser Trp Ala Gln
 100 105 110
 Ala Leu Leu Pro Pro Gln Pro Cys Lys
 115 120

<210> 2275

<211> 197

<212> PRT

<213> Homo sapiens

<400> 2275

```

Met Leu Asn Gly Thr His Gly Pro Ser Ser Glu Lys Lys Ser Asn Ile
  1             5             10             15
Pro Asp Leu Ser Ile Tyr Leu Lys Gly Glu Asp Ala Phe Asp Ala Leu
      20             25             30
Pro Pro Ser Leu Pro Pro Pro Pro Pro Pro Ala Arg His Ser Leu Ile
      35             40             45
Glu His Ser Lys Pro Pro Gly Ser Ser Ser Arg Pro Ser Ser Gly Gln
      50             55             60
Asp Leu Leu Leu Leu Pro Ser Asp Pro Phe Val Asp Leu Ala Ser Gly
      65             70             75             80
Gln Val Pro Leu Pro Pro Ala Arg Arg Leu Pro Gly Glu Asn Val Lys
              85             90             95
Thr Asn Arg Thr Ser Gln Asp Tyr Asp Gln Leu Pro Ser Cys Ser Asp
              100            105            110
Gly Ser Gln Ala Pro Ala Arg Pro Pro Lys Pro Arg Pro Arg Arg Thr
              115            120            125
Ala Pro Glu Ile His His Arg Lys Pro His Gly Pro Glu Ala Ala Leu
              130            135            140
Glu Asn Val Asp Ala Lys Ile Ala Lys Leu Met Gly Glu Gly Tyr Ala
              145            150            155            160
Phe Glu Glu Val Lys Arg Ala Leu Glu Ile Ala Gln Asn Asn Val Glu
              165            170            175
Val Ala Arg Ser Ile Leu Arg Glu Phe Ala Phe Pro Pro Pro Val Ser
              180            185            190
Pro Arg Leu Asn Leu
              195

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<210> 2276

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2276

Met Gln Phe Glu Phe Met Ile Glu Ser Ile Leu Tyr Ala Arg Asp Ala
 1 5 10 15
 Trp Leu Lys Glu Asp Gly Val Ile Trp Pro Thr Met Ala Ala Leu His
 20 25 30
 Leu Val Pro Cys Ser Ala Asp Lys Asp Tyr Arg Ser Lys Val Leu Phe
 35 40 45
 Trp Asp Asn Ala Tyr Glu Phe Asn Leu Ser Ala Leu Lys Ser Leu Ala
 50 55 60
 Val Lys Glu Phe Phe Ser Lys Pro Lys Tyr Asn His Ile Leu Lys Pro
 65 70 75 80
 Glu Asp Cys Leu Ser Glu Pro Cys Thr Ile Leu Gln Leu Asp Met Arg
 85 90 95
 Thr Val Gln Ile Ser Asp Leu Glu Val Arg Lys Arg
 100 105

<210> 2277

<211> 213

<212> PRT

<213> Homo sapiens

<400> 2277

Met Asp Arg Arg Lys Gly Asp Arg Thr Leu Pro Val Arg Thr Pro Thr
 1 5 10 15
 Met Ala Gly Gly Leu Phe Ser Ile Asp Arg Asn Tyr Phe Glu Glu Ile
 20 25 30
 Gly Thr Tyr Asp Ala Gly Met Asp Ile Trp Gly Gly Glu Asn Leu Glu
 35 40 45
 Met Ser Phe Arg Ile Trp Gln Cys Gly Gly Ser Leu Glu Ile Val Thr
 50 55 60
 Cys Ser His Val Gly His Val Phe Arg Lys Ala Thr Pro Tyr Thr Phe
 65 70 75 80
 Pro Gly Gly Thr Gly His Val Ile Asn Lys Asn Asn Arg Arg Leu Ala
 85 90 95

Glu Val Trp Met Asp Glu Phe Lys Asp Phe Phe Tyr Ile Ile Ser Pro
 100 105 110
 Gly Val Val Lys Val Asp Tyr Gly Asp Val Ser Val Arg Lys Thr Leu
 115 120 125
 Arg Glu Asn Leu Lys Cys Lys Pro Phe Ser Trp Tyr Leu Glu Asn Ile
 130 135 140
 Tyr Pro Asp Ser Gln Ile Pro Arg Arg Tyr Tyr Ser Leu Gly Glu Ile
 145 150 155 160
 Arg Asn Val Glu Thr Asn Gln Cys Leu Asp Asn Met Gly Arg Lys Glu
 165 170 175
 Asn Glu Lys Val Gly Ile Phe Asn Cys His Gly Met Gly Gly Asn Gln
 180 185 190
 Thr Gln Trp Thr Cys Asn His Val Lys Met Pro Pro Tyr Glu Arg Lys
 195 200 205
 Ser Val Met Gly Ile
 210

<210> 2278

<211> 352

<212> PRT

<213> Homo sapiens

<400> 2278

Met Lys Asn Trp Arg Leu Ser Ser Trp Leu Trp Ser Gly Ala Ser Pro
 1 5 10 15
 Gln Pro Trp Arg Ser Ser Lys Ala Lys Pro Arg Pro Glu Ala Pro His
 20 25 30
 Pro Gly Leu Glu Thr Thr Leu Gln Glu Arg Leu Ala Leu Tyr Gln Thr
 35 40 45
 Ala Ile Glu Ser Ala Arg Gln Ala Gly Asp Ser Ala Lys Met Arg Arg
 50 55 60
 Tyr Asp Arg Gly Leu Lys Thr Leu Glu Asn Leu Leu Ala Ser Ile Arg
 65 70 75 80
 Lys Gly Asn Ala Ile Asp Glu Ala Asp Ile Pro Pro Pro Val Ala Ile
 85 90 95

Gly Lys Gly Pro Ala Ser Thr Pro Thr Tyr Ser Pro Ala Pro Thr Gln
 100 105 110
 Pro Ala Pro Arg Ile Ala Ser Ala Pro Glu Pro Arg Val Thr Leu Glu
 115 120 125
 Gly Pro Ser Ala Thr Ala Pro Ala Ser Ser Pro Gly Leu Ala Lys Pro
 130 135 140
 Gln Met Pro Pro Gly Pro Cys Ser Pro Gly Pro Leu Ala Gln Leu Gln
 145 150 155 160
 Ser Arg Gln Arg Asp Tyr Lys Leu Ala Ala Leu His Ala Lys Gln Gln
 165 170 175
 Gly Asp Thr Thr Ala Ala Ala Arg His Phe Arg Val Ala Lys Ser Phe
 180 185 190
 Asp Ala Val Leu Glu Ala Leu Ser Arg Gly Glu Pro Val Asp Leu Ser
 195 200 205
 Cys Leu Pro Pro Pro Pro Asp Gln Leu Pro Pro Asp Pro Pro Ser Pro
 210 215 220
 Pro Ser Gln Pro Pro Thr Pro Ala Thr Ala Pro Ser Thr Thr Glu Val
 225 230 235 240
 Pro Pro Pro Pro Arg Thr Leu Leu Glu Ala Leu Glu Gln Arg Met Glu
 245 250 255
 Arg Tyr Gln Val Ala Ala Ala Gln Ala Lys Ser Lys Gly Asp Gln Arg
 260 265 270
 Lys Ala Arg Met His Glu Arg Ile Val Lys Gln Tyr Gln Asp Ala Ile
 275 280 285
 Arg Ala His Lys Ala Gly Arg Ala Val Asp Val Ala Glu Leu Pro Val
 290 295 300
 Pro Pro Gly Phe Pro Pro Ile Gln Gly Leu Glu Ala Thr Lys Pro Thr
 305 310 315 320
 Gln Gln Ser Leu Val Gly Val Leu Glu Thr Ala Met Lys Leu Ala Asn
 325 330 335
 Gln Asp Glu Gly Pro Glu Asp Glu Glu Asp Glu Val Pro Lys Lys Val
 340 345 350

<211> 148

<212> PRT

<213> Homo sapiens

<400> 2279

Met Ala Arg Lys Gly Ala Arg Arg Pro Arg Gln Gly Pro Gly Ser His
 1 5 10 15
 Lys Trp Leu Gln Pro Gly Ser Arg Arg Glu Lys Glu Arg Ile Pro Gln
 20 25 30
 Pro Pro Pro Pro Ala Arg Pro Pro Arg Asp Ala Ala Pro Arg Arg Val
 35 40 45
 Leu Val Pro Ala Val Arg Arg Val Pro Glu Ser Gly His Phe Ala Gly
 50 55 60
 Arg Pro Trp Ala Pro Gln Cys His Pro Lys Gly Leu Arg Arg Pro Ser
 65 70 75 80
 Ala Glu Ser His Ser Val Ala Gln Ala Gly Val Gln Cys His Asp Leu
 85 90 95
 Gly Ser Leu Gln Pro Pro Pro Pro Ser Ser Gly Asp Ser Pro Ala Ser
 100 105 110
 Ala Ser Arg Val Ala Gly Ile Thr Ser Thr Val Pro Gly Thr Leu Ser
 115 120 125
 Ala Leu Asp Asp Cys Cys Leu Ile Thr Glu Leu Pro Tyr Lys Pro Pro
 130 135 140
 Ala Val Leu Tyr
 145

<210> 2280

<211> 571

<212> PRT

<213> Homo sapiens

<400> 2280

Met Ala Pro Ser Leu Arg His Ser Val Gln Gln Phe His His His Pro
 1 5 10 15
 Ser Thr Ala Leu His Gly Glu Ser Val Ala His Ser Pro Arg Phe Ser

20	25	30
Pro Asn Pro Pro Gln Gln Gly Ala Val Arg Pro Gln Thr Leu Asn Phe		
35	40	45
Ser Ser Arg Ser Gln Thr Val Pro Ser Pro Thr Ile Asn Asn Ser Gly		
50	55	60
Gln Tyr Ser Arg Tyr Pro Tyr Ser Asn Leu Asn Gln Gly Leu Val Asn		
65	70	75
80		
Asn Thr Gly Met Asn Gln Asn Leu Gly Leu Thr Asn Asn Thr Pro Met		
85	90	95
Asn Gln Ser Val Pro Arg Tyr Pro Asn Ala Val Gly Phe Pro Ser Asn		
100	105	110
Ser Gly Gln Gly Leu Met His Gln Gln Pro Ile His Pro Ser Gly Ser		
115	120	125
Leu Asn Gln Met Asn Thr Gln Thr Met His Pro Ser Gln Pro Gln Gly		
130	135	140
Thr Tyr Ala Ser Pro Pro Pro Met Ser Pro Met Lys Ala Met Ser Asn		
145	150	155
160		
Pro Ala Gly Thr Pro Pro Pro Gln Val Arg Pro Gly Ser Ala Gly Ile		
165	170	175
Pro Met Glu Val Gly Ser Tyr Pro Asn Ile Pro His Pro Gln Pro Ser		
180	185	190
His Gln Pro Pro Gly Ala Met Gly Ile Gly Gln Arg Asn Met Gly Pro		
195	200	205
Arg Asn Met Gln Gln Ser Arg Pro Phe Ile Gly Met Ser Ser Ala Pro		
210	215	220
Arg Glu Leu Thr Gly His Met Arg Pro Asn Gly Cys Pro Gly Val Gly		
225	230	235
240		
Leu Gly Asp Pro Gln Ala Ile Gln Glu Arg Leu Ile Pro Gly Gln Gln		
245	250	255
His Pro Gly Gln Gln Pro Ser Phe Gln Gln Leu Pro Thr Cys Pro Pro		
260	265	270
Leu Gln Pro His Pro Gly Leu His His Gln Ser Ser Pro Pro His Pro		
275	280	285
His His Gln Pro Trp Ala Gln Leu His Pro Ser Pro Gln Asn Thr Pro		
290	295	300
Gln Lys Val Pro Val His Gln His Ser Pro Ser Glu Pro Phe Leu Glu		

305	310	315	320
Lys Pro Val Pro Asp Met Thr Gln Val Ser Gly Pro Asn Ala Gln Leu			
325	330	335	
Val Lys Ser Asp Asp Tyr Leu Pro Ser Ile Glu Gln Gln Pro Gln Gln			
340	345	350	
Lys Lys Lys Lys Lys Lys Asn Asn His Ile Val Ala Glu Asp Pro Ser			
355	360	365	
Lys Gly Phe Gly Lys Asp Asp Phe Pro Gly Gly Val Asp Asn Gln Glu			
370	375	380	
Leu Asn Arg Asn Ser Leu Asp Gly Ser Gln Glu Glu Lys Lys Lys Lys			
385	390	395	400
Lys Arg Ser Lys Ala Lys Lys Asp Pro Lys Glu Pro Lys Glu Pro Lys			
405	410	415	
Glu Lys Lys Glu Pro Lys Glu Pro Lys Thr Pro Lys Ala Pro Lys Ile			
420	425	430	
Pro Lys Glu Pro Lys Glu Lys Lys Ala Lys Thr Ala Thr Pro Lys Pro			
435	440	445	
Lys Ser Ser Lys Lys Ser Ser Asn Lys Lys Pro Asp Ser Glu Ala Ser			
450	455	460	
Ala Leu Lys Lys Lys Val Asn Lys Gly Lys Thr Glu Gly Pro Glu Asn			
465	470	475	480
Ser Asp Leu Asp Lys Thr Pro Pro Pro Ser Pro Pro Pro Glu Glu Asp			
485	490	495	
Glu Asp Pro Gly Val Gln Lys Arg Arg Ser Ser Arg Gln Val Lys Arg			
500	505	510	
Lys Arg Tyr Thr Glu Asp Leu Glu Phe Lys Ile Ser Asp Glu Glu Ala			
515	520	525	
Asp Asp Ala Asp Ala Ala Gly Arg Asp Ser Pro Ser Asn Thr Ser Gln			
530	535	540	
Ser Glu Gln Gln Glu Ser Val Asp Ala Glu Gly Pro Val Val Glu Lys			
545	550	555	560
Ile Met Ser Ser Arg Ser Val Lys Lys Lys Lys			
565	570		

<211> 139

<212> PRT

<213> Homo sapiens

<400> 2281

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Met Phe Ile Met Leu Phe Phe Leu Thr Ile Ser His Phe Leu Phe Pro
 1             5             10             15
Ser Cys Pro Phe Phe Phe Phe Phe Phe Phe Glu Ser Glu Phe His
             20             25             30
Ser Cys Cys Pro Gly Trp Ile Ser Val Ala Arg Ser Arg Leu Thr Glu
             35             40             45
Thr Ser Ala Ser Arg Ile Gln Ala Ile Leu Leu Ser Arg Pro Ser Arg
             50             55             60
Trp Leu Gly Leu Gln Ala Cys Ala Thr Met Pro Gly Tyr Leu Val Val
             65             70             75             80
Val Val Val Val Val Leu Leu Val Glu Thr Met Phe Leu His Phe Gly
             85             90             95
Gln Ala Gly Leu Glu Leu Leu Thr Ser Gly Asp Pro Ala Ala Ser Ala
             100            105            110
Ser Gln Ser Thr Gly Ile Thr Arg Met Arg Asp Arg Ala Gln Pro Pro
             115            120            125
Leu Ser Ile Tyr Ile Leu Gln Leu Leu Lys Leu
             130            135

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<210> 2282

<211> 133

<212> PRT

<213> Homo sapiens

<400> 2282

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Met Leu Trp Glu Trp Gly Val Cys Phe Gly Val Ser Asp Lys Phe Pro
 1             5             10             15
Gly Asp Cys Ile Val Gln Pro Gln Ser Arg Thr Ser Thr Pro Gly Ser
             20             25             30
Leu Leu Ser Pro Thr Val Cys Tyr Gly Ala Leu Ser Val Thr Ser Leu

```

35 40 45
 Ile Ala Val Thr Lys Asp Arg Thr Gln Thr Ile Trp Val Thr Leu Gly
 50 55 60
 Ala Asp Glu Gln Val Pro Gly Arg Lys Gly Leu Gly Ser Glu Asp Leu
 65 70 75 80
 Gly Cys Asp Leu Leu Gln Ile Val Ile Gly Leu Ala Leu Ser Thr Trp
 85 90 95
 Glu Gln Arg Glu Leu Glu Ala Ser Pro Ala Cys Leu Gly Trp Lys Ala
 100 105 110
 Gly Phe Pro Phe Ala Ala Gly Trp Leu Pro Phe Leu Thr Leu Ser Leu
 115 120 125
 Gln Ser Tyr Asn Thr
 130

<210> 2283

<211> 453

<212> PRT

<213> Homo sapiens

<400> 2283

Met Leu His Arg Asp Ser Thr Ile Ser Asn Glu Ser Ser Gln Ser Cys
 1 5 10 15
 Ser Ser Gly Arg Gln Asn Ile Arg Leu His Ser Asp Ser Ser Ser Ser
 20 25 30
 Thr Gln Val Phe Glu Ser Val Asp Glu Val Glu Gln Val Glu Ala Glu
 35 40 45
 Gly Arg Leu Glu Glu Lys Gln Pro Lys Ile Pro Asn Gly Asn Leu Val
 50 55 60
 Asn Gly Thr Cys Ser Pro Asp Ser Gly His Pro Ser Ser His Asn Phe
 65 70 75 80
 Ser Ser Gly Leu Ser Glu His Ser Glu Pro Ser Leu Ser Thr Glu Asp
 85 90 95
 Ser Val Leu Asp Ala Gln Arg Asn Thr Pro Thr Val Leu Arg Pro Arg

100	105	110
Asp Gly Ser Val Asp Asp Arg Gln Ser Ser Glu Ala Thr Thr Ser Gln		
115	120	125
Asp Glu Ala Pro Arg Glu Glu Leu Ala Val Gln Asp Ser Leu Glu Ser		
130	135	140
Asp Leu Leu Ala Asn Glu Ser Met Asp Glu Phe Met Ser Ile Thr Gly		
145	150	155
Ser Leu Asp Met Ala Leu Pro Glu Lys Asp Asp Val Val Met Glu Gly		
165	170	175
Trp Arg Ser Ser Glu Thr Glu Lys His Gly Gln Ala Asp Ser Glu Asp		
180	185	190
Asn Leu Ser Glu Glu Pro Glu Met Glu Ser Leu Phe Pro Ala Leu Ala		
195	200	205
Ser Leu Ala Val Thr Thr Ser Ala Asn Glu Val Ser Pro Val Ser Ser		
210	215	220
Ser Gly Val Thr Tyr Ser Pro Glu Leu Leu Asp Leu Tyr Thr Val Asn		
225	230	235
Leu His Arg Ile Glu Lys Asp Val Gln Arg Cys Asp Arg Asn Tyr Trp		
245	250	255
Tyr Phe Thr Pro Ala Asn Leu Glu Lys Leu Arg Asn Ile Met Cys Ser		
260	265	270
Tyr Ile Trp Gln His Ile Glu Ile Gly Tyr Val Gln Gly Met Cys Asp		
275	280	285
Leu Leu Ala Pro Leu Leu Val Ile Leu Asp Asp Glu Ala Leu Ala Phe		
290	295	300
Ser Cys Phe Thr Glu Leu Met Lys Arg Met Asn Gln Asn Phe Pro His		
305	310	315
Gly Gly Ala Met Asp Thr His Phe Ala Asn Met Arg Ser Leu Ile Gln		
325	330	335
Ile Leu Asp Ser Glu Leu Phe Glu Leu Met His Gln Asn Gly Asp Tyr		
340	345	350
Thr His Phe Tyr Phe Cys Tyr Arg Trp Phe Leu Leu Asp Phe Lys Arg		
355	360	365
Glu Leu Val Tyr Asp Asp Val Phe Leu Val Trp Glu Thr Ile Trp Ala		
370	375	380
Ala Lys His Val Ser Ser Ala His Tyr Val Leu Phe Ile Ala Leu Ala		

385 390 395 400
 Leu Val Glu Val Tyr Arg Asp Ile Ile Leu Glu Asn Asn Met Asp Phe
 405 410 415
 Thr Asp Ile Ile Lys Phe Phe Asn Glu Met Ala Glu Arg His Asn Thr
 420 425 430
 Lys Gln Val Leu Lys Leu Ala Arg Asp Leu Val Tyr Lys Val Gln Thr
 435 440 445
 Leu Ile Glu Asn Lys
 450

<210> 2284

<211> 213

<212> PRT

<213> Homo sapiens

<400> 2284

Met Ser Arg Gln Gly Thr Gly Ser Ser Ala Gln Gly Leu Pro Val Leu
 1 5 10 15
 Leu Gly Cys Leu Pro Thr Ala Asp Ser Val Pro Leu Asp Cys Leu Leu
 20 25 30
 Gln Lys Phe Leu Leu Leu Met Ala Ser Thr Ser Ala Cys Tyr Lys Leu
 35 40 45
 Phe Arg Glu Lys Gln Lys Asp Gly His Gly Glu Ala Ile Met Phe Lys
 50 55 60
 Gly Leu Gly Gly Met Ser Ser Lys Arg Ile Thr Ile Asn Lys Ile Leu
 65 70 75 80
 Ser Asn Glu Ser Leu Val Gln Asp Asn Leu Tyr Phe Gln Arg Cys Leu
 85 90 95
 Asp Trp Asn Arg Asp Ile Leu Lys Lys Glu Leu Gly Leu Thr Glu Gln
 100 105 110
 Asp Ile Ile Asp Leu Pro Ala Leu Phe Lys Met Asp Glu Asp His Arg
 115 120 125
 Ala Arg Ala Phe Phe Pro Asn Met Val Asn Met Ile Val Leu Asp Lys
 130 135 140
 Asp Leu Gly Ile Pro Lys Pro Phe Gly Pro Gln Val Glu Glu Glu Cys

145 150 155 160
 Cys Leu Glu Met His Val Arg Gly Leu Leu Glu Pro Leu Gly Leu Glu
 165 170 175
 Cys Thr Phe Ile Asp Asp Ile Ser Ala Tyr His Lys Phe Leu Gly Glu
 180 185 190
 Val His Cys Gly Thr Asn Val Arg Arg Lys Pro Phe Thr Phe Lys Trp
 195 200 205
 Trp His Met Val Pro
 210

<210> 2285

<211> 191

<212> PRT

<213> Homo sapiens

<400> 2285

Met Ala Glu Asn Lys Gly Leu Gly Tyr Pro Asp Ala Arg Phe Ser Val
 1 5 10 15
 Leu Val Ser Ser Gln Leu Ala Ile Pro Met Pro Leu Leu Ser Ser Val
 20 25 30
 Gly Gly His Trp Thr Trp Thr Asp Pro Trp Asp Arg Arg Ile Gln Gly
 35 40 45
 Val Leu Phe Ser Phe Asp Phe Phe Tyr Leu Phe Ser Ala Arg Lys Asp
 50 55 60
 Thr Asp Leu Cys Ser Trp Leu Ser Ser Lys Asn His Leu Ser Phe Val
 65 70 75 80
 Pro Leu Ser Cys Lys Arg Glu Val His Phe Ile Cys Leu Phe Cys Lys
 85 90 95
 Thr Leu Gly Val Cys His Gly His Ala Leu Met Met Ser Thr Cys Val
 100 105 110
 Arg Pro Leu Pro Pro Trp Ser Ala Cys Met Val Leu Gln Pro Glu Thr
 115 120 125
 Ala Leu Gly Glu Ile Arg Gly Ser Leu Leu Val Gly Gly Glu His Leu
 130 135 140
 Pro Leu His Ala Gly Arg His Leu Met Lys Pro Gln Arg Pro Gly Ser

145 150 155 160
 Pro Cys Thr Trp Lys Glu Ser Leu Ser Ser Met Trp Gly Glu Pro Arg
 165 170 175
 Trp Pro Cys Gly Ile His Val Phe Pro Pro Pro Ala Ser Pro Ala
 180 185 190

<210> 2286

<211> 330

<212> PRT

<213> Homo sapiens

<400> 2286

Met Ala Lys Ala Asp Pro Thr Cys Asn Ser Thr Phe Leu His Leu Asp
 1 5 10 15
 Thr Gln Gly Cys Tyr Ser Gly Pro Cys Pro Glu Glu Cys Val Trp Ser
 20 25 30
 Ser Trp Ser Ser Trp Thr Arg Cys Ser Cys Arg Val Leu Val Gln Gln
 35 40 45
 Arg Tyr Arg His Gln Gly Pro Ala Ser Arg Gly Ala Arg Ala Gly Ala
 50 55 60
 Pro Cys Thr Arg Leu Asp Gly His Phe Arg Pro Cys Leu Ile Ser Asn
 65 70 75 80
 Cys Ser Glu Asp Ser Cys Thr Pro Pro Phe Glu Phe His Ala Cys Gly
 85 90 95
 Ser Pro Cys Ala Gly Leu Cys Ala Thr His Leu Ser His Gln Leu Cys
 100 105 110
 Gln Asp Leu Pro Pro Cys Gln Pro Gly Cys Tyr Cys Pro Lys Gly Leu
 115 120 125
 Leu Glu Gln Ala Gly Gly Cys Ile Pro Pro Glu Glu Cys Asn Cys Trp
 130 135 140
 His Thr Ser Ala Ala Gly Ala Gly Met Thr Leu Ala Pro Gly Asp Arg
 145 150 155 160
 Leu Gln Leu Gly Cys Lys Glu Cys Glu Cys Gln Arg Gly Glu Leu His
 165 170 175
 Cys Thr Ser Gln Gly Cys Gln Gly Leu Leu Pro Leu Ser Glu Trp Ser

180	185	190
Glu Trp Ser Pro Cys Gly Pro Cys Leu Pro Pro Ser Ala Leu Ala Pro		
195	200	205
Ala Ser Arg Thr Ala Leu Glu Glu His Trp Leu Arg Asp Pro Thr Gly		
210	215	220
Leu Ser Pro Thr Leu Ala Pro Leu Leu Ala Ser Glu Gln His Arg His		
225	230	235
Arg Leu Cys Leu Asp Pro Ala Thr Gly Arg Pro Trp Thr Gly Ala Pro		
245	250	255
His Leu Cys Thr Ala Pro Leu Ser Gln Gln Arg Leu Cys Pro Asp Pro		
260	265	270
Gly Ala Cys Pro Asp Ser Cys Gln Trp Ser Leu Trp Gly Pro Trp Ser		
275	280	285
Pro Cys Gln Val Pro Cys Ser Gly Gly Phe Arg Leu Arg Trp Arg Glu		
290	295	300
Ala Glu Ala Leu Cys Gly Gly Gly Phe Arg Glu Pro Trp Ala Gln Asp		
305	310	315
Arg Lys Leu Gln Arg Arg Ala Leu Pro Arg		
325	330	

<210> 2287

<211> 250

<212> PRT

<213> Homo sapiens

<400> 2287

Met Leu Val Arg Ser Val Gly Leu Phe Leu Val Gly Leu Leu Leu Gly
1 5 10 15
Leu Leu Leu Ala Ala Ala Ala Leu Leu Gly Ser Ala Pro Tyr Tyr Gln
20 25 30
Pro Gly Ser Val Trp Gly Pro Leu Gly Leu Leu Leu Gly Gly Gly Leu
35 40 45
Leu Cys Ala Leu Leu Thr Leu Arg Trp Pro Arg Pro Leu Thr Thr Leu
50 55 60
Ala Thr Ala Val Thr Gly Ala Ala Leu Ile Ala Thr Ala Ala Asp Tyr

65	70	75	80												
Phe	Ala	Glu	Leu	Leu	Leu	Gly	Arg	Tyr	Val	Val	Glu	Arg	Leu	Arg	
	85	90	95												
Ala	Ala	Pro	Val	Pro	Pro	Leu	Cys	Trp	Arg	Ser	Trp	Ala	Leu	Leu	Ala
	100	105	110												
Leu	Trp	Pro	Leu	Leu	Ser	Leu	Met	Gly	Val	Leu	Val	Gln	Trp	Arg	Val
	115	120	125												
Thr	Ala	Glu	Gly	Asp	Ser	His	Thr	Glu	Val	Val	Ile	Ser	Arg	Gln	Arg
	130	135	140												
Arg	Arg	Val	Gln	Leu	Met	Arg	Ile	Arg	Gln	Gln	Glu	Asp	Arg	Lys	Glu
145	150	155	160												
Lys	Arg	Arg	Lys	Lys	Arg	Pro	Pro	Arg	Ala	Pro	Leu	Arg	Gly	Pro	Arg
	165	170	175												
Ala	Pro	Pro	Arg	Pro	Gly	Pro	Pro	Asp	Pro	Ala	Tyr	Arg	Arg	Arg	Pro
	180	185	190												
Val	Pro	Ile	Lys	Arg	Phe	Asn	Gly	Asp	Val	Leu	Ser	Pro	Ser	Tyr	Ile
	195	200	205												
Gln	Ser	Phe	Arg	Asp	Arg	Gln	Thr	Gly	Ser	Ser	Leu	Ser	Ser	Phe	Met
	210	215	220												
Ala	Ser	Pro	Thr	Asp	Ala	Asp	Tyr	Glu	Tyr	Gly	Ser	Arg	Gly	Pro	Leu
225	230	235	240												
Thr	Ala	Cys	Ser	Gly	Pro	Pro	Val	Arg	Val						
	245	250													

<210> 2288

<211> 160

<212> PRT

<213> Homo sapiens

<400> 2288

Met	His	Gly	Leu	Arg	Glu	Gln	Phe	Ser	His	Pro	Arg	Trp	Pro	Ala	Ser
1	5	10	15												
Leu	Cys	Leu	Cys	Phe	Pro	Ala	Leu	Thr	Pro	Asp	Val	Val	His	Gln	Ser

20

25

30

Leu Phe Met Ser Ala Leu Ser Ala His Pro Asp Arg Ser Leu Ser Val
 35 40 45
 Cys Trp Glu Gln His Cys Lys Leu Leu Pro Gly Val Ala Gly Ile Ser
 50 55 60
 Ala Ser Thr Val Ala Lys Trp Thr Ile Asp Glu Val Phe Gly Phe Val
 65 70 75 80
 Gln Thr Leu Thr Gly Cys Glu Asp Gln Ala Arg Leu Phe Lys Asp Glu
 85 90 95
 Ala Arg Ile Val Arg Val Thr His Val Ser Gly Lys Thr Leu Val Trp
 100 105 110
 Thr Val Ala Gln Leu Gly Asp Leu Val Cys Ser Asp His Leu Gln Glu
 115 120 125
 Gly Lys Gly Ile Leu Glu Thr Gly Val His Ser Leu Leu Cys Ser Leu
 130 135 140
 Pro Thr His Leu Leu Ala Lys Leu Ser Phe Ala Ser Asp Ser Gln Tyr
 145 150 155 160

<210> 2289

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2289

Met Ala Ala Pro Leu Gln Glu Arg Gln Leu Gly Cys Leu Arg Pro Asp
 1 5 10 15
 Gly Gln Arg Leu Pro Trp Pro Arg Val Val Thr Val Leu Arg Pro Leu
 20 25 30
 Arg Ala Ala Gln Ser Gly Lys Lys Ser Ala Glu Pro Gly Lys Phe Leu
 35 40 45
 Ser Val Ser Ser Gly Leu Glu Gly Ala Gly Ile Asp Arg Ala Glu Ala
 50 55 60
 Ala Arg Ala Trp Cys Cys Phe Gly Ile Gly Gly Arg Arg Ala Glu Pro
 65 70 75 80
 Pro Ala Pro Trp Val Trp Phe His Pro Trp Pro Val Pro Gly Thr Arg
 85 90 95

Gln Leu Leu Leu Cys Ala Tyr Trp Cys His His Val Ile
 100 105

<210> 2290

<211> 235

<212> PRT

<213> Homo sapiens

<400> 2290

Met Ala Arg Glu Glu Cys Lys Ala Leu Leu Asp Gly Leu Asn Lys Thr
 1 5 10 15
 Thr Ala Cys Tyr His His Leu Val Leu Thr Val Gly Gly Ser Ala Asp
 20 25 30
 Ser Gln Asn Leu Arg Gln Glu Leu Gln Lys Thr Arg Gln Lys Ala Gln
 35 40 45
 Glu Leu Ala Val Ser Thr Cys Ala Arg Leu Thr Ala Val Leu Arg Asp
 50 55 60
 Arg Gly Leu Ala Ala Asp Glu Arg Ala Glu Phe Glu Arg Leu Trp Val
 65 70 75 80
 Ala Phe Ser Gly Cys Leu Asp Leu Leu Glu Ala Asp Met Arg Arg Ser
 85 90 95
 Leu Glu Leu Gly Ala Ala Phe Pro Leu His Ala Pro Arg Arg Pro Leu
 100 105 110
 Val Arg Thr Gly Val Ala Gly Ala Ser Ser Gly Val Ala Ala Arg Ala
 115 120 125
 Leu Ser Thr Arg Ser Leu Arg Leu Glu Ala Glu Gly Asp Phe Asp Val
 130 135 140
 Ala Asp Leu Arg Glu Leu Glu Arg Glu Val Leu Gln Val Gly Glu Met
 145 150 155 160
 Ile Asp Asn Met Glu Met Lys Val Asn Val Pro Arg Trp Thr Val Gln
 165 170 175
 Ala Arg Gln Ala Ala Gly Ala Glu Leu Leu Ser Thr Val Ser Ala Gly
 180 185 190
 Pro Ser Ser Val Val Ser Leu Gln Glu Arg Gly Gly Gly Cys Asp Pro
 195 200 205

Arg Lys Ala Leu Ala Ala Ile Leu Phe Gly Ala Val Leu Leu Ala Ala
 210 215 220
 Val Ala Leu Ala Val Cys Val Ala Lys Leu Ser
 225 230 235

<210> 2291

<211> 628

<212> PRT

<213> Homo sapiens

<400> 2291

Met Leu Ser Cys Leu Lys Glu Glu Met Pro Pro Gln Glu Leu Thr Arg
 1 5 10 15
 Arg Leu Ala Thr Val Ile Thr His Val Asp Glu Ile Met Gln Gln Glu
 20 25 30
 Val Arg Pro Leu Met Ala Val Glu Ile Ile Glu Gln Leu His Arg Gln
 35 40 45
 Phe Ala Ile Leu Ser Gly Gly Arg Gly Glu Asp Gly Ala Pro Ile Ile
 50 55 60
 Thr Phe Pro Glu Phe Ser Gly Phe Lys His Ile Pro Asp Glu Asp Phe
 65 70 75 80
 Leu Asn Val Met Thr Tyr Leu Thr Ser Ile Pro Ser Val Glu Ala Ala
 85 90 95
 Ser Ile Gly Phe Ile Val Val Ile Asp Arg Arg Arg Asp Lys Trp Ser
 100 105 110
 Ser Val Lys Ala Ser Leu Thr Arg Ile Ala Val Ala Phe Pro Gly Asn
 115 120 125
 Leu Gln Leu Ile Phe Ile Leu Arg Pro Ser Arg Phe Ile Gln Arg Thr
 130 135 140
 Phe Thr Asp Ile Gly Ile Lys Tyr Tyr Arg Asn Glu Phe Lys Thr Lys
 145 150 155 160
 Val Pro Ile Ile Met Val Asn Ser Val Ser Asp Leu His Gly Tyr Ile
 165 170 175
 Asp Lys Ser Gln Leu Thr Arg Glu Leu Gly Gly Thr Leu Glu Tyr Arg
 180 185 190

His Gly Gln Trp Val Asn His Arg Thr Ala Ile Glu Asn Phe Ala Leu
 195 200 205
 Thr Leu Lys Thr Thr Ala Gln Met Leu Gln Thr Phe Gly Ser Cys Leu
 210 215 220
 Ala Thr Ala Glu Leu Pro Arg Ser Met Leu Ser Thr Glu Asp Leu Leu
 225 230 235 240
 Met Ser His Thr Arg Gln Arg Asp Lys Leu Gln Asp Glu Leu Lys Leu
 245 250 255
 Leu Gly Lys Gln Gly Thr Thr Leu Leu Ser Cys Ile Gln Glu Pro Ala
 260 265 270
 Thr Lys Cys Pro Asn Ser Lys Leu Asn Leu Asn Gln Leu Glu Asn Val
 275 280 285
 Thr Thr Met Glu Arg Leu Leu Val Gln Leu Asp Glu Thr Glu Lys Ala
 290 295 300
 Phe Ser His Phe Trp Ser Glu His His Leu Lys Leu Asn Gln Cys Leu
 305 310 315 320
 Gln Leu Gln His Phe Glu His Asp Phe Cys Lys Ala Lys Leu Ala Leu
 325 330 335
 Asp Asn Leu Leu Glu Glu Gln Ala Glu Phe Thr Gly Ile Gly Asp Ser
 340 345 350
 Val Met His Val Glu Gln Leu Leu Lys Glu His Lys Lys Leu Glu Glu
 355 360 365
 Lys Ser Gln Glu Pro Leu Glu Lys Ala Gln Leu Leu Ala Leu Val Gly
 370 375 380
 Asp Gln Leu Ile Gln Ser His His Tyr Ala Ala Asp Ala Ile Arg Pro
 385 390 395 400
 Arg Cys Val Glu Leu Arg His Leu Cys Asp Asp Phe Ile Asn Gly Asn
 405 410 415
 Lys Lys Lys Trp Asp Ile Leu Gly Lys Ser Leu Glu Phe His Arg Gln
 420 425 430
 Leu Asp Lys Val Ser Gln Trp Cys Glu Ala Gly Ile Tyr Leu Leu Ala
 435 440 445
 Ser Gln Ala Val Asp Lys Cys Gln Ser Arg Glu Gly Val Asp Ile Ala
 450 455 460
 Leu Asn Asp Ile Ala Thr Phe Leu Gly Thr Val Lys Glu Tyr Pro Leu

465 470 475 480
 Leu Ser Pro Lys Glu Phe Tyr Asn Glu Phe Glu Leu Leu Leu Thr Leu
 485 490 495
 Asp Ala Lys Ala Lys Ala Gln Lys Val Leu Gln Arg Leu Asp Asp Val
 500 505 510
 Gln Glu Ile Phe His Lys Arg Gln Val Ser Leu Met Lys Leu Ala Ala
 515 520 525
 Lys Gln Thr Arg Pro Val Gln Pro Val Ala Pro His Pro Glu Ser Ser
 530 535 540
 Pro Lys Trp Val Ser Ser Lys Thr Ser Gln Pro Ser Thr Ser Val Pro
 545 550 555 560
 Leu Ala Arg Pro Leu Arg Thr Ser Glu Glu Pro Tyr Thr Glu Thr Glu
 565 570 575
 Leu Asn Ser Arg Gly Lys Glu Asp Asp Glu Thr Lys Phe Glu Val Lys
 580 585 590
 Ser Glu Glu Ile Phe Glu Ser His His Glu Arg Gly Asn Pro Glu Leu
 595 600 605
 Glu Gln Gln Ala Arg Leu Gly Asp Leu Ser Pro Arg Arg Tyr Ser Ser
 610 615 620
 Gln Tyr Phe Lys
 625

<210> 2292

<211> 160

<212> PRT

<213> Homo sapiens

<400> 2292

Met Ala Phe Leu Met Lys Ser Met Ile Ser Asn Gln Val Lys Asn Leu
 1 5 10 15
 Gly Phe Gly Gly Gly Ser Glu Glu Asn Lys Glu Glu Gly Gly Ala Ser
 20 25 30
 Asp Pro Ala Ala Ala Gln Gly Met Thr Arg Glu Glu Tyr Glu Glu Tyr
 35 40 45
 Gln Lys Gln Met Ile Glu Glu Lys Met Glu Arg Asp Ala Ala Phe Thr

50	55	60
Gln Lys Lys Ala Glu Arg Ala Cys Leu Arg Val His Leu Arg Glu Lys		
65	70	75
Tyr Arg Leu Pro Lys Ser Glu Met Asp Glu Asn Gln Ile Gln Met Ala		
85	90	95
Gly Asp Asp Val Asp Leu Pro Glu Asp Leu Arg Lys Met Val Asp Glu		
100	105	110
Asp Gln Glu Glu Glu Glu Asp Lys Asp Ser Ile Leu Gly Gln Ile Gln		
115	120	125
Asn Leu Gln Asn Met Asp Leu Asp Thr Ile Lys Glu Lys Ala Gln Ala		
130	135	140
Thr Phe Thr Glu Ile Lys Gln Thr Ala Glu Gln Lys Cys Ser Val Met		
145	150	155
		160

<210> 2293

<211> 233

<212> PRT

<213> Homo sapiens

<400> 2293

Met Glu Gly Cys Pro Pro Gly Leu Trp Leu Ala Leu Gly Val Arg Val		
1	5	10
Ser Gly Ala Pro Pro Ala Val Ser Pro Arg Gln Ser His Gly Gly Ala		
20	25	30
Gly Ala Trp Thr Leu Ser His Pro Gly Glu Pro Leu Ser His Arg Leu		
35	40	45
Pro Gly Leu Gln Pro Pro His Ala Ser Pro Arg Leu Val Leu Gly Pro		
50	55	60
Gly Pro Pro Leu Ser Lys Ala Asp Phe Pro Ser Phe His Asp Lys Asp		
65	70	75
Ala Gln Pro Arg Phe Pro Gly Ala Leu Ala Arg Glu Ile Ala Gly Cys		
85	90	95
Ile Pro Thr Pro Ala Gly Thr Cys Ala Pro Pro Gly Gln Gly Leu Pro		
100	105	110
Val Pro Phe Arg Gly Ser Pro Ala Ala Ser Thr Gly Arg Lys Arg Arg		

115 120 125
 Ser Ala Glu Arg Thr Asn Gly Ala Asp Pro Arg Arg Leu Gly Ala Gly
 130 135 140
 Arg Gly Gly Ala Glu Pro Pro Arg Leu Gln Leu Ala Gly Thr Arg Gly
 145 150 155 160
 Arg Ala Ala Gly Leu Gly Gly Ala His Ser Ala Thr Asp Arg Pro Arg
 165 170 175
 Arg Leu Cys Arg Pro Leu Pro Val Ser Arg Gly Gly Ser Arg Gln Glu
 180 185 190
 Ala Glu Gly Thr Pro Pro Ala Pro Gly Gln Ala Ala Arg Ala Ala Asp
 195 200 205
 Pro Ser Arg Glu Gly Pro Trp Ala Asp Glu Pro Arg Val Pro Gln Pro
 210 215 220
 Trp Ser Arg Thr Thr Arg Ser Arg Arg
 225 230

<210> 2294

<211> 229

<212> PRT

<213> Homo sapiens

<400> 2294

Met Ser Ser Leu Ala Tyr Gly Thr Leu Gly Asp Leu Ser Gln Tyr Lys
 1 5 10 15
 Glu Val Arg Leu Ala Ser Trp Lys Ser Glu Pro Gln Gly Ala Ser Phe
 20 25 30
 Leu Leu Cys Arg Val Gln Ser Gly Pro Gly Ser Gly Cys Ser Ala Leu
 35 40 45
 Val Phe Cys Gly Ser Arg Cys Pro Leu Leu Phe Val Ser Gly Asn Met
 50 55 60
 Ala Ser Gly Val Ala Val Ser Asp Gly Val Ile Lys Val Phe Asn Asp
 65 70 75 80
 Met Lys Val Arg Lys Ser Ser Thr Pro Glu Glu Val Lys Lys Arg Lys
 85 90 95
 Lys Ala Val Leu Phe Cys Leu Ser Glu Asp Lys Lys Asn Ile Ile Leu

100 105 110
 Glu Glu Gly Lys Glu Ile Leu Val Gly Asp Val Gly Gln Thr Val Asp
 115 120 125
 Asp Pro Tyr Ala Thr Phe Val Lys Met Leu Pro Asp Lys Asp Cys Arg
 130 135 140
 Tyr Ala Leu Tyr Asp Ala Thr Tyr Glu Thr Lys Glu Ser Lys Lys Glu
 145 150 155 160
 Asp Leu Val Phe Ile Phe Trp Ala Pro Glu Ser Ala Pro Leu Lys Ser
 165 170 175
 Lys Met Ile Tyr Ala Ser Ser Lys Asp Ala Ile Lys Lys Lys Leu Thr
 180 185 190
 Gly Ile Lys His Glu Leu Gln Ala Asn Cys Tyr Glu Glu Val Lys Asp
 195 200 205
 Arg Cys Thr Leu Ala Glu Lys Leu Gly Gly Ser Ala Val Ile Ser Leu
 210 215 220
 Glu Gly Lys Pro Leu
 225

<210> 2295

<211> 138

<212> PRT

<213> Homo sapiens

<400> 2295

Met Val Gly Ala Gly Asp Asp Gly Ala Pro Gly Val Gly Met Arg Lys
 1 5 10 15
 Glu Pro Arg Asn Gly Tyr Ile Leu Glu Thr Glu Leu Thr Gly Leu Gly
 20 25 30
 Ser Glu Leu Asn Leu Trp Glu Glu Gly Glu Ile Glu Ala Gln Leu Ala
 35 40 45
 Phe Arg Gly Asp Val Ala Asn Lys Val Pro Gly Gly Ile Val Tyr Pro
 50 55 60
 His Glu Gly Cys Arg Gly Lys Ser Arg Val Ser Arg Arg Val Glu Met
 65 70 75 80
 Ser Gly Asp Leu Leu Gly His Ile Met Ile Glu Lys Val Gly Leu Gly

	85		90		95
Arg Gly Trp Trp Leu Met Ser Val Ile Pro Ala Leu Trp Glu Ala Glu					
	100		105		110
Val Asp His Leu Arg Ser Gly Val Gly Asp Gln Pro Gly Gln His Gly					
	115		120		125
Glu Thr Pro Ser Leu Leu Lys Ile Gln Asn					
	130		135		

<210> 2296

<211> 225

<212> PRT

<213> Homo sapiens

<400> 2296

Met Thr Cys Asn Ser Arg Trp Trp Ile Cys Ser Lys Ala Ser Ile Pro					
1		5		10	15
Thr Pro Ser Lys Gly Gln Val Ser Ser Pro Ala Ser Glu Ile Arg Leu					
	20		25		30
Trp Asp Pro Cys Leu Gly Gly Gly Leu His Ala Pro Ala Thr Ser Ala					
	35		40		45
Gly Ala Asp Ser Arg Thr Pro Trp His Phe Leu Arg Thr Arg Ala Trp					
	50		55		60
Asp Gly Pro Ser Ala Pro Trp Tyr Ala Leu Pro Ser Phe Gln Leu Pro					
	65		70		75
Cys Pro Leu Thr Leu Gly Ser Pro Pro Pro His Gln Cys Arg Val Leu					
	85		90		95
Val Pro Thr Ser Ser Phe Leu Gln Pro Gln Thr Ala Ser Gly Ser Ser					
	100		105		110
Cys Pro Ser Pro Ser Gly Thr Pro Ala Pro Gly Cys Pro Leu Ser Leu					
	115		120		125
Pro Pro Met Pro Arg Ala Pro Pro Ala Ser Ala Gly Gln Ala Phe Arg					
	130		135		140
Thr Leu Pro Pro Thr Gln Phe Tyr Asn Pro Ala Pro Ser Pro Gly Asn					
	145		150		155
Pro Thr His Gln Pro Arg Pro Ala Pro Pro Pro Phe Pro Gly Gly Ser					

165 170 175
 Pro Gly Met Leu Arg Val Gly Gly Gly Ala Arg Leu Asp Ala Ser Cys
 180 185 190
 Gly Ser Pro Leu Gln Thr Trp Leu Ala Pro Ala Ala Thr Glu Thr Thr
 195 200 205
 Met Ala Lys Asn Leu Ile Gly Ser Gln Gly Leu Thr Arg Gly Gly Lys
 210 215 220
 Gln
 225

<210> 2297

<211> 248

<212> PRT

<213> Homo sapiens

<400> 2297

Met Trp Pro Gly Asn Ala Trp Arg Ala Ala Leu Phe Trp Val Pro Arg
 1 5 10 15
 Gly Arg Arg Ala Gln Ser Ala Leu Ala Gln Leu Arg Gly Ile Leu Glu
 20 25 30
 Gly Glu Leu Glu Gly Ile Arg Gly Ala Gly Thr Trp Lys Ser Glu Arg
 35 40 45
 Val Ile Thr Ser Arg Gln Gly Pro His Ile Arg Val Asp Gly Val Ser
 50 55 60
 Gly Gly Pro Gly Thr Val Ile Phe Pro Gly Leu Pro Ser Pro His Leu
 65 70 75 80
 Ser Cys Cys Ile His Leu Leu Ser Phe Thr Ser Gly Ile Leu Asn Phe
 85 90 95
 Cys Ala Asn Asn Tyr Leu Gly Leu Ser Ser His Pro Glu Val Ile Gln
 100 105 110
 Ala Gly Leu Gln Ala Leu Glu Glu Phe Gly Ala Gly Leu Ser Ser Val
 115 120 125
 Arg Phe Ile Cys Gly Thr Gln Ser Ile His Lys Asn Leu Glu Ala Lys
 130 135 140
 Ile Ala Arg Phe His Gln Arg Glu Asp Ala Ile Leu Tyr Pro Ser Cys

145 150 155 160
 Tyr Asp Ala Asn Ala Gly Leu Phe Glu Ala Leu Leu Thr Pro Glu Asp
 165 170 175
 Ala Val Leu Ser Asp Glu Leu Asn His Ala Ser Ile Ile Asp Gly Ile
 180 185 190
 Arg Leu Cys Lys Ala His Lys Tyr Arg Tyr Arg His Leu Asp Met Ala
 195 200 205
 Asp Leu Glu Ala Lys Leu Gln Glu Ala Gln Lys His Arg Leu Arg Leu
 210 215 220
 Val Ala Thr Asp Gly Ala Phe Phe His Gly Trp Arg His Arg Thr Pro
 225 230 235 240
 Ala Gly Asp Leu Leu Pro Arg Leu
 245

<210> 2298

<211> 221

<212> PRT

<213> Homo sapiens

<400> 2298

Met Gly Ser Ala Leu Arg Gly Leu Gly Ser Ala Thr Phe Ser Ser Ser
 1 5 10 15
 Pro Val Thr His Ser Ser Arg Val Gly Gly Val Leu Pro Ala Pro Pro
 20 25 30
 Arg Gly Leu Gly Ile Ser Pro Ser Pro Cys Pro Gly Asp Ser Leu Ala
 35 40 45
 Leu Ser Arg Thr Ala Ser Leu Leu Gly Leu Ser Leu Gly Thr Gln Trp
 50 55 60
 Thr Pro Lys Ser Arg Pro Ala Pro Thr Thr Gly Pro Ala Ser Leu Cys
 65 70 75 80
 Leu Pro Gln Leu Ala Trp Val Leu Ala Trp Val Arg Ile Trp Lys Leu
 85 90 95
 Leu Ala Gly Leu Asn Gln Ala Leu Leu Ser Ser Ser Arg Ala Leu Ser
 100 105 110
 His Arg Arg Gln Arg Pro Ala Ala Ser Arg Pro His Cys Gln Gln Cys

115	120	125
Pro Trp Pro Ser Glu	Pro Arg Arg Ser Ser Thr	Pro Ser Arg Pro Ser
130	135	140
Ser Thr Pro Pro Arg	Pro Ala Gly Gln Gly Gln Ala	Leu Pro Gln Ile
145	150	155
Leu Ile Gly Arg Glu	Ala Leu Leu Thr Phe Pro Pro	Gly Gly Arg Gly
165	170	175
Trp Ser Glu Ser Pro	His Ser Arg Glu Thr His Arg	Ser Pro Leu Asn
180	185	190
Phe Ala Asp Ala His	Leu Glu Asn Gly Leu Ser Cys	Thr Arg Pro Ser
195	200	205
His Thr Thr Ala Leu	Gln Ala Asp Gly Met Phe	Gln Leu
210	215	220

<210> 2299

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2299

Met Leu Pro Arg Ser	Gln Ser Leu Cys Tyr Ser	Leu Pro Gln Ala Ile
1	5	10
Leu Ser Pro Trp Pro	Pro Lys Val Leu Ser	Leu Gln Val Ser Thr Thr
20	25	30
Val Ala Ser His Ala	Leu Val Leu Arg Ser Arg	Ile Phe Leu Phe Gly
35	40	45
Ala Phe Thr Ile Ser	Phe Arg Leu Gly Asp Arg	Glu Pro Thr Lys Gln
50	55	60
Pro Phe Arg Gly Trp	Lys Lys Ser Leu Glu Lys	Glu Leu Cys Gly Phe
65	70	75
Arg Asn Phe Ser Arg	Lys Ser Ser Arg Ala Glu	Lys Glu Asn Leu Pro
85	90	95
Asn Gly Arg Val Tyr		
100		

<210> 2300

<211> 277

<212> PRT

<213> Homo sapiens

<400> 2300

```

Met Glu Glu Asn Gln Arg Val Ala Arg Arg Arg Arg Phe Pro Phe Val
  1              5              10              15
Arg Glu Arg Ser Asp Ser Thr Gly Ser Ser Ser Val Tyr Phe Thr Ala
      20              25              30
Ser Ser Gly Ala Thr Phe Thr Asp Ala Glu Ser Glu Gly Gly Tyr Thr
      35              40              45
Thr Ala Asn Ala Glu Ser Asp Asn Glu Arg Asp Ser Asp Lys Glu Ser
      50              55              60
Glu Asp Gly Glu Asp Glu Val Ser Cys Glu Thr Val Lys Met Gly Arg
      65              70              75              80
Lys Asp Ser Leu Asp Leu Glu Glu Glu Ala Ala Ser Gly Ala Ser Ser
      85              90              95
Ala Leu Glu Ala Gly Gly Ser Ser Gly Leu Glu Asp Val Leu Pro Leu
      100             105             110
Leu Gln Gln Ala Asp Glu Leu His Arg Gly Asp Glu Gln Gly Lys Arg
      115             120             125
Glu Gly Phe Gln Leu Leu Leu Asn Asn Lys Leu Val Tyr Gly Ser Arg
      130             135             140
Gln Asp Phe Leu Trp Arg Leu Ala Arg Ala Tyr Ser Asp Met Cys Glu
      145             150             155             160
Leu Thr Glu Glu Val Ser Glu Lys Lys Ser Tyr Ala Leu Asp Gly Lys
      165             170             175
Glu Glu Ala Glu Ala Ala Leu Glu Lys Gly Asp Glu Ser Ala Asp Cys
      180             185             190
His Leu Trp Tyr Ala Val Leu Cys Gly Gln Leu Ala Glu His Glu Ser
      195             200             205
Ile Gln Arg Arg Ile Gln Ser Gly Phe Ser Phe Lys Glu His Val Asp
      210             215             220
Lys Ala Ile Ala Leu Gln Pro Glu Asn Pro Met Ala His Phe Leu Leu

```

225 230 235 240
 Gly Arg Trp Cys Tyr Gln Val Ser His Leu Ser Trp Leu Glu Lys Lys
 245 250 255
 Leu Leu Gln Pro Cys Leu Lys Ala Leu Ser Val Pro Leu Trp Lys Met
 260 265 270
 Pro Ser Arg Ala Ser
 275

<210> 2301

<211> 330

<212> PRT

<213> Homo sapiens

<400> 2301

Met Arg Arg Asp Pro Ala Pro Gly Phe Ser Met Leu Leu Phe Gly Val
 1 5 10 15
 Leu Leu Ala Cys Tyr Ser Pro Ser Leu Lys Ser Val Gln Asp Gln Ala
 20 25 30
 Tyr Lys Ala Pro Val Val Val Glu Gly Lys Val Gln Gly Leu Val Pro
 35 40 45
 Ala Gly Gly Ser Ser Ser Asn Ser Thr Arg Glu Pro Pro Ala Ser Gly
 50 55 60
 Arg Val Ala Leu Val Lys Val Leu Asp Lys Trp Pro Leu Arg Ser Gly
 65 70 75 80
 Gly Leu Gln Arg Glu Gln Val Ile Ser Val Gly Ser Cys Val Pro Leu
 85 90 95
 Glu Arg Asn Gln Arg Tyr Ile Phe Phe Leu Glu Pro Thr Glu Gln Pro
 100 105 110
 Leu Val Phe Lys Thr Ala Phe Ala Pro Leu Asp Thr Asn Gly Lys Asn
 115 120 125
 Leu Lys Lys Glu Val Gly Lys Ile Leu Cys Thr Asp Cys Ala Thr Arg
 130 135 140
 Pro Lys Leu Lys Lys Met Lys Ser Gln Thr Gly Gln Val Gly Glu Lys
 145 150 155 160
 Gln Ser Leu Lys Cys Glu Ala Ala Ala Gly Asn Pro Gln Pro Ser Tyr

	165		170		175
Arg Trp Phe Lys Asp Gly Lys Glu Leu Asn Arg Ser Arg Asp Ile Arg					
	180		185		190
Ile Lys Tyr Gly Asn Gly Arg Lys Asn Ser Arg Leu Gln Phe Asn Lys					
	195		200		205
Val Lys Val Glu Asp Ala Gly Glu Tyr Val Cys Glu Ala Glu Asn Ile					
	210		215		220
Leu Gly Lys Asp Thr Val Arg Gly Arg Leu Tyr Val Asn Ser Val Ser					
225		230		235	240
Thr Thr Leu Ser Ser Trp Ser Gly His Ala Arg Lys Cys Asn Glu Thr					
	245		250		255
Ala Lys Ser Tyr Cys Val Asn Gly Gly Val Cys Tyr Tyr Ile Glu Gly					
	260		265		270
Ile Asn Gln Leu Ser Cys Lys Cys Pro Asn Gly Phe Phe Gly Gln Arg					
	275		280		285
Cys Leu Glu Lys Leu Pro Leu Arg Leu Tyr Met Pro Asp Pro Lys Gln					
	290		295		300
Ser Val Leu Trp Asp Thr Pro Gly Thr Gly Val Ser Ser Ser Gln Trp					
305		310		315	320
Ser Thr Ser Pro Ser Thr Leu Asp Leu Asn					
	325		330		

<210> 2302

<211> 113

<212> PRT

<213> Homo sapiens

<400> 2302

Met Lys Ile Leu Leu Gly Gly Val Thr Asn Val Phe Met His Ile Gln			
1	5	10	15
Asp Thr Leu Val Ser Thr Gly Cys Thr Ala Val Ile His Pro His Leu			
	20	25	30
Leu Lys Met His Pro Asp Leu Ser Pro His Leu His Thr Glu Glu Cys			
	35	40	45
Asn Val Leu Ile Asn Leu Leu Lys Glu Cys His Lys Asn His Asn Ile			

50 55 60
 Leu Lys Phe Phe Gly Tyr Cys Asn Asp Val Asp Arg Glu Leu Arg Lys
 65 70 75 80
 Cys Leu Lys Asn Glu Tyr Val Glu Asn Arg Thr Lys Ser Arg Glu His
 85 90 95
 Gly Ile Ala Met Arg Lys Lys Leu Phe Asn Pro Pro Glu Glu Ser Glu
 100 105 110
 Lys

<210> 2303

<211> 215

<212> PRT

<213> Homo sapiens

<400> 2303

Met Gln Pro Pro Ala Leu Ser Ser Asn Ser Arg Val Arg Ile Thr Gln
 1 5 10 15
 Pro Cys Leu Asp Asp Arg Cys Ser Glu Leu Ser Gly Ala Leu Pro Arg
 20 25 30
 Ala Gln Arg Ser Arg Ala Val Pro Ile Pro Ala Arg Pro Arg Lys Arg
 35 40 45
 Pro Ser Cys Arg Glu Ser Gly Lys Pro Arg Ala Gly Trp Val Ser Ala
 50 55 60
 Gln Ser Pro Thr Thr Gly Trp Gly Gly Gly His Pro Gln Ser Thr Val
 65 70 75 80
 Ser Gly Gly Arg Asn Arg Ala Leu Leu Ala Ser Val Arg Phe Arg Arg
 85 90 95
 Arg Gln Arg Gly Tyr Leu Ala Trp Cys Gly Gly Arg Ala Gly Ala Val
 100 105 110
 Pro Ala Glu Gly Pro Ala Val Cys Ala Gly His Ala Arg Gly His Ala
 115 120 125
 Gly Arg Pro Ala Ala Ala Ala Pro Arg Lys Ala Ala Pro Ala Gly Ser
 130 135 140
 Met Arg His Pro Ala Pro Gly Pro Asp Cys Pro Arg His Gln His Gln

145 150 155 160
 Gly Gln Lys Gln Tyr Asn Ile His Val Gly Thr Ala Gly Ser Lys Asp
 165 170 175
 Lys Arg Pro Lys Ile Ser Gly Leu Arg Met Glu His Ser His Glu Pro
 180 185 190
 Ala His Asp Lys Thr His Pro Cys Phe Ser Gly Ser Arg Leu Tyr Val
 195 200 205
 Lys Ala Ser Cys Arg Gly Cys
 210 215

<210> 2304

<211> 107

<212> PRT

<213> Homo sapiens

<400> 2304

Met Glu Leu Leu Asp Pro Asp Glu Leu Arg Gly Glu Ala Gly Tyr Tyr
 1 5 10 15
 Leu Thr Thr Trp Phe Gly Ala Leu His His Ile Ala His Tyr Gln Pro
 20 25 30
 Glu Thr Asp Arg Ala Pro Arg Gly Leu Ser Ser Glu Ala Arg Ala Ser
 35 40 45
 Leu His Gln Trp His Arg Arg Arg Thr Leu His Arg Lys Asp His Pro
 50 55 60
 Arg Ala Gln Val Thr Ala His Leu Ala Ala Ser Arg Arg Glu Gly Glu
 65 70 75 80
 Thr Trp Cys Pro Ser Asp Pro Ala Pro Thr Ser Pro His Arg Pro Thr
 85 90 95
 Cys Pro Leu Arg Ser His Gly Gln Lys Arg Leu
 100 105

<210> 2305

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2305

```

Met Ile Leu Lys Lys Gly Pro His Phe Pro Gly Glu Ala Asp Pro Arg
 1             5             10            15
Cys Val Val Gly Ser Pro Gly Ala Gly Asp Arg Arg Cys Ala Cys Ala
      20             25             30
Ala Ala Gly Thr Gly Ala Ser Arg Leu Gly Val Ala Arg Gly Val Pro
      35             40             45
Gly Gln Pro Gly Pro His Pro Gly Pro Leu Val Pro Cys Pro Ser Ser
      50             55             60
Leu Pro Ile Leu Pro His Leu Pro Ser Thr Thr Val Ala Ala Ala Gly
      65             70             75             80
Ser Ala Ser Ala Thr Gly Ala Ala Ala Arg Arg Cys Arg Cys Gly Ala
      85             90             95
Cys Ala Leu Trp Thr Pro Cys Gly Ser Ala Arg Ser Ala Pro Trp Cys
      100            105            110
Pro Ser Arg Arg Arg Ser Ser Thr Thr Ser Ser Ser Lys Cys Ser
      115            120            125

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<210> 2306

<211> 131

<212> PRT

<213> Homo sapiens

<400> 2306

```

Met Val Ala Ala Tyr Ala Gly His Ile Asp Cys Val Arg Glu Leu Val

 1             5             10            15
Leu Gln Gly Ala Asp Ile Asn Leu Gln Arg Glu Asp Gly Gly Thr Ala
      20             25             30
Leu Leu Ala Ala Ser Gln Tyr Gly His Met Gln Val Val Glu Thr Leu
      35             40             45
Leu Lys His Gly Ala Asn Ile His Asp Gln Leu Tyr Asp Gly Ala Thr
      50             55             60

```

Ala Leu Phe Leu Ala Ala Gln Gly Gly Tyr Leu Asp Val Ile Arg Leu
 65 70 75 80
 Leu Leu Ala Ser Gly Ala Lys Val Asn Gln Pro Arg Thr Gly Gln Arg
 85 90 95
 Pro Cys Gly Ser Arg Pro Arg Trp Ala Thr Ala Arg Trp Cys Gly Cys
 100 105 110
 Cys Cys Cys Ala Glu Pro Thr Ala Thr Leu Arg Gly Thr Met Ala Gln
 115 120 125
 Gln His Tyr
 130

<210> 2307

<211> 190

<212> PRT

<213> Homo sapiens

<400> 2307

Met Leu Phe Thr His Ala Ser Leu Thr Ile Met Thr Lys Ile Phe Phe
 1 5 10 15
 Leu Ala Cys Ile Leu Ser Gln Ser Val Gln Tyr Ile Gly Leu Lys Val
 20 25 30
 Leu Trp Lys Ser Leu Cys Arg Ser Ile Ile Cys Val Lys Lys Lys Lys
 35 40 45
 Lys Pro Lys Lys Gln Lys Lys Lys Thr Phe Asp Leu Ser Arg His Ile
 50 55 60
 Glu Ala Gln Leu Thr Ala Ser Phe Ala Gly Ile Trp Phe Tyr Phe Leu
 65 70 75 80
 Phe Arg Phe Ile Ile Asp Ser Thr Ser Ile Ser Leu Asp Cys Phe Phe
 85 90 95
 Val Ile Val Gly Gln Val Ser Ile Ser Ile Asn Ser Ile Leu Ser Leu
 100 105 110
 Asn Ser Ser Phe His Thr Ser Phe Asp Thr Leu Val Ala Leu Ser Phe
 115 120 125
 Ile Leu Leu Val Phe Val Leu Arg Gln Ser Leu Ala Leu Pro Leu Arg

130 135 140
 Leu Glu Cys Ser Gly Thr Ile Thr Ala His Cys Ser Leu Tyr Leu Leu
 145 150 155 160
 Gly Pro Ser Ser Ala Leu Asp Ser Gly Met Pro Asn Ser Val Ala Gly
 165 170 175
 Thr Thr Ser Leu Thr Ile Leu Pro Gly Leu Val Leu Asn Pro
 180 185 190

<210> 2308

<211> 180

<212> PRT

<213> Homo sapiens

<400> 2308

Met Leu Glu Asp Pro Val Ala Leu Lys Ala Cys Leu Leu His Ile Cys
 1 5 10 15
 Leu Gln Ser Gln Thr Ser Gly Pro Gly Ala Val Ser Ser Leu Val Ser
 20 25 30
 Gly Ile Pro Val Ala Ser Met Phe Cys Val Cys Val Trp Cys Ala Pro
 35 40 45
 Ser Ser His Cys Leu Asn Ser Leu Lys Ser His Lys Gly Gly Leu Leu
 50 55 60
 Leu Glu Ile Trp Pro Pro Leu Ala Pro Pro Arg Ser Pro His Val Ser
 65 70 75 80
 Pro Thr Gly Ser Pro Gln Thr Thr Ser Glu Gly Leu Thr Cys Cys His
 85 90 95
 Ser Leu Leu Leu Pro Gln Ser Arg Val Met Arg Met Asp Gly Val Gln
 100 105 110
 Gly Phe Arg Trp Gly Leu Arg Arg Cys Pro Cys Trp Pro Cys Pro Ser
 115 120 125
 Trp Leu Ser Arg Pro Gly Phe Thr Val Gln Leu His Leu Tyr Ala Gly
 130 135 140
 Arg Gly Ala Asp Ser Ser Gly Thr Pro Trp Phe Trp Ile Pro Phe Leu
 145 150 155 160

Gly Ser Leu Trp Arg Gln Pro Gly Phe Ser Gly Ala Ala Ser Gln Gln
 165 170 175
 Leu Ser Gln Gly
 180

<210> 2309

<211> 1015

<212> PRT

<213> Homo sapiens

<400> 2309

Met Ala Gln Gly Glu Ala Gln Trp Phe Gln Glu Ala Lys Asn Leu Asn
 1 5 10 15
 Glu Gln Leu Arg Ala Ala Tyr Thr Ser Ala Ser Phe Arg His Met Ser
 20 25 30
 Leu Leu Asp Ile Ser Ser Asp Leu Ala Thr Asp His Leu Leu Gly Cys
 35 40 45
 Asp Leu Ser Ile Ala Ser Lys His Ile Ser Lys Pro Val Gln Glu Pro
 50 55 60
 Leu Val Leu Pro Glu Val Phe Gly Asn Leu Asn Ser Val Met Cys Val
 65 70 75 80
 Glu Gly Glu Ala Gly Ser Gly Lys Thr Val Leu Leu Lys Lys Ile Ala
 85 90 95
 Phe Leu Trp Ala Ser Gly Cys Cys Pro Leu Leu Asn Arg Phe Gln Leu
 100 105 110
 Val Phe Tyr Leu Ser Leu Ser Ser Thr Arg Pro Asp Glu Gly Leu Ala
 115 120 125
 Ser Ile Ile Cys Asp Gln Leu Leu Glu Lys Glu Gly Ser Val Thr Glu
 130 135 140
 Met Cys Met Arg Asn Ile Ile Gln Gln Leu Lys Asn Gln Val Leu Phe
 145 150 155 160
 Leu Leu Asp Asp Tyr Lys Glu Ile Cys Ser Ile Pro Gln Val Ile Gly
 165 170 175
 Lys Leu Ile Gln Lys Asn His Leu Ser Arg Thr Cys Leu Leu Ile Ala
 180 185 190

Val Arg Thr Asn Arg Ala Arg Asp Ile Arg Arg Tyr Leu Glu Thr Ile
 195 200 205
 Leu Glu Ile Lys Ala Phe Pro Phe Tyr Asn Thr Val Cys Ile Leu Arg
 210 215 220
 Lys Leu Phe Ser His Asn Met Thr Arg Leu Arg Lys Phe Met Val Tyr
 225 230 235 240
 Phe Gly Lys Asn Gln Ser Leu Gln Lys Ile Gln Lys Thr Pro Leu Phe
 245 250 255
 Val Ala Ala Ile Cys Ala His Trp Phe Gln Tyr Pro Phe Asp Pro Ser
 260 265 270
 Phe Asp Asp Val Ala Val Phe Lys Ser Tyr Met Glu Arg Leu Ser Leu
 275 280 285
 Arg Asn Lys Ala Thr Ala Glu Ile Leu Lys Ala Thr Val Ser Ser Cys
 290 295 300
 Gly Glu Leu Ala Leu Lys Gly Phe Phe Ser Cys Cys Phe Glu Phe Asn
 305 310 315 320
 Asp Asp Asp Leu Ala Glu Ala Gly Val Asp Glu Asp Glu Asp Leu Thr
 325 330 335
 Met Cys Leu Met Ser Lys Phe Thr Ala Gln Arg Leu Arg Pro Phe Tyr
 340 345 350
 Arg Phe Leu Ser Pro Ala Phe Gln Glu Phe Leu Ala Gly Met Arg Leu
 355 360 365
 Ile Glu Leu Leu Asp Ser Asp Arg Gln Glu His Gln Asp Leu Gly Leu
 370 375 380
 Tyr His Leu Lys Gln Ile Asn Ser Pro Ile Met Thr Val Ser Ala Tyr
 385 390 395 400
 Asn Asn Phe Leu Asn Tyr Val Ser Ser Leu Pro Ser Thr Lys Ala Gly
 405 410 415
 Pro Lys Ile Val Ser His Leu Leu His Leu Val Asp Asn Lys Glu Ser
 420 425 430
 Leu Glu Asn Ile Ser Glu Asn Asp Asp Tyr Leu Lys His Gln Pro Glu
 435 440 445
 Ile Ser Leu Gln Met Gln Leu Leu Arg Gly Leu Trp Gln Ile Cys Pro
 450 455 460
 Gln Ala Tyr Phe Ser Met Val Ser Glu His Leu Leu Val Leu Ala Leu
 465 470 475 480

Lys Thr Ala Tyr Gln Ser Asn Thr Val Ala Ala Cys Ser Pro Phe Val
 485 490 495
 Leu Gln Phe Leu Gln Gly Arg Thr Leu Thr Leu Gly Ala Leu Asn Leu
 500 505 510
 Gln Tyr Phe Phe Asp His Pro Glu Ser Leu Ser Leu Leu Arg Ser Ile
 515 520 525
 His Phe Pro Ile Arg Gly Asn Lys Thr Ser Pro Arg Ala His Phe Ser
 530 535 540
 Val Leu Glu Thr Cys Phe Asp Lys Ser Gln Val Pro Thr Ile Asp Gln
 545 550 555 560
 Asp Tyr Ala Ser Ala Phe Glu Pro Met Asn Glu Trp Glu Arg Asn Leu
 565 570 575
 Ala Glu Lys Glu Asp Asn Val Lys Ser Tyr Met Asp Met Gln Arg Arg
 580 585 590
 Ala Ser Pro Asp Leu Ser Thr Gly Tyr Trp Lys Leu Ser Pro Lys Gln
 595 600 605
 Tyr Lys Ile Pro Cys Leu Glu Val Asp Val Asn Asp Ile Asp Val Val
 610 615 620
 Gly Gln Asp Met Leu Glu Ile Leu Met Thr Val Phe Ser Ala Ser Gln
 625 630 635 640
 Arg Ile Glu Leu His Leu Asn His Ser Arg Gly Phe Ile Glu Ser Ile
 645 650 655
 Arg Pro Ala Leu Glu Leu Ser Lys Ala Ser Val Thr Lys Cys Ser Ile
 660 665 670
 Ser Lys Leu Glu Leu Ser Ala Ala Glu Gln Glu Leu Leu Leu Thr Leu
 675 680 685
 Pro Ser Leu Glu Ser Leu Glu Val Ser Gly Thr Ile Gln Ser Gln Asp
 690 695 700
 Gln Ile Phe Pro Asn Leu Asp Lys Phe Leu Cys Leu Lys Glu Leu Ser
 705 710 715 720
 Val Asp Leu Glu Gly Asn Ile Asn Val Phe Ser Val Ile Pro Glu Glu
 725 730 735
 Phe Pro Asn Phe His His Met Glu Lys Leu Leu Ile Gln Ile Ser Ala
 740 745 750
 Glu Tyr Asp Pro Ser Lys Leu Val Lys Leu Ile Gln Asn Ser Pro Asn
 755 760 765

Leu His Val Phe His Leu Lys Cys Asn Phe Phe Ser Asp Phe Gly Ser
 770 775 780
 Leu Met Thr Met Leu Val Ser Cys Lys Lys Leu Thr Glu Ile Lys Phe
 785 790 795 800
 Ser Asp Ser Phe Phe Gln Ala Val Pro Phe Val Ala Ser Leu Pro Asn
 805 810 815
 Phe Ile Ser Leu Lys Ile Leu Asn Leu Glu Gly Gln Gln Phe Pro Asp
 820 825 830
 Glu Glu Thr Ser Glu Lys Phe Ala Tyr Ile Leu Gly Ser Leu Ser Asn
 835 840 845
 Leu Glu Glu Leu Ile Leu Pro Thr Gly Asp Gly Ile Tyr Arg Val Ala
 850 855 860
 Lys Leu Ile Ile Gln Gln Cys Gln Gln Leu His Cys Leu Arg Val Leu
 865 870 875 880
 Ser Phe Phe Lys Thr Leu Asn Asp Asp Ser Val Val Glu Ile Ala Lys
 885 890 895
 Val Ala Ile Ser Gly Gly Phe Gln Lys Leu Glu Asn Leu Lys Leu Ser
 900 905 910
 Ile Asn His Lys Ile Thr Glu Glu Gly Tyr Arg Asn Phe Phe Gln Ala
 915 920 925
 Leu Asp Asn Met Pro Asn Leu Gln Glu Leu Asp Ile Ser Arg His Phe
 930 935 940
 Thr Glu Cys Ile Lys Ala Gln Ala Thr Thr Val Lys Ser Leu Ser Gln
 945 950 955 960
 Cys Val Leu Arg Leu Pro Arg Leu Ile Arg Leu Asn Met Leu Ser Trp
 965 970 975
 Leu Leu Asp Ala Asp Asp Ile Ala Leu Leu Asn Val Met Lys Glu Arg
 980 985 990
 His Pro Gln Ser Lys Tyr Leu Thr Ile Leu Gln Lys Trp Ile Leu Pro
 995 1000 1005
 Phe Ser Pro Ile Ile Gln Lys
 1010 1015

<210> 2310

<211> 259

<212> PRT

<213> Homo sapiens

<400> 2310

```

Met Gln Phe Leu His Lys Leu Ile Leu Asn His Asn Pro Leu Thr Thr
  1             5             10             15
Val Glu Asp Pro Tyr Leu Phe Lys Leu Pro Ala Leu Lys Tyr Leu Asp
      20             25             30
Met Gly Thr Thr Leu Val Pro Leu Thr Thr Leu Lys Asn Ile Leu Met
      35             40             45
Met Thr Val Glu Leu Glu Lys Leu Ile Leu Pro Ser His Met Ala Cys
      50             55             60
Cys Leu Cys Gln Phe Lys Asn Ser Ile Glu Ala Val Cys Lys Thr Val
      65             70             75             80
Lys Leu His Cys Asn Ser Ala Cys Leu Thr Asn Thr Thr His Cys Pro
      85             90             95
Glu Glu Ala Ser Val Gly Asn Pro Glu Gly Ala Phe Met Lys Val Leu
      100            105            110
Gln Ala Arg Lys Asn Tyr Thr Ser Thr Glu Leu Ile Val Glu Pro Glu
      115            120            125
Glu Pro Ser Asp Ser Ser Gly Ile Asn Leu Ser Gly Phe Gly Ser Glu
      130            135            140
Gln Leu Asp Thr Asn Asp Glu Ser Asp Phe Ile Ser Thr Leu Ser Tyr
      145            150            155            160
Ile Leu Pro Tyr Phe Ser Ala Val Asn Leu Asp Val Lys Ser Leu Leu
      165            170            175
Leu Pro Leu Ile Lys Leu Pro Thr Thr Gly Asn Ser Leu Ala Lys Ile
      180            185            190
Gln Thr Val Gly Gln Asn Arg Gln Arg Val Lys Arg Val Leu Met Gly
      195            200            205
Pro Arg Ser Ile Gln Lys Arg His Phe Lys Glu Val Gly Arg Gln Ser
      210            215            220
Ile Arg Arg Glu Gln Gly Ala Gln Ala Ser Val Glu Asn Ala Ala Glu
      225            230            235            240
Glu Lys Arg Leu Gly Ser Pro Ala Pro Thr Glu Glu Glu Glu Ser Glu
      245            250            255

```

Ala Leu Pro

<210> 2311

<211> 110

<212> PRT

<213> Homo sapiens

<400> 2311

```

Met Ala Thr Ser Asp Pro Pro Gln Ser Leu Asp Thr Ser Leu Phe Phe
  1             5             10             15
Gly Thr Val Ala Met Lys Asn Ser Ser Pro Glu Pro Gln Ala Leu Thr
      20             25             30
Pro Ser Ser Lys Leu Thr Val Asp Thr Asp Ala Leu Thr Pro Ser Ser
      35             40             45
Thr Leu Cys Glu Asn Ser Val Ser Glu Leu Leu Thr Pro Thr Lys Ala
      50             55             60
Glu Trp Asn Val His Pro Asp Ser Asp Phe Phe Gly Gln Glu Gly Glu
      65             70             75             80
Thr Gln Phe Gly Phe Pro Asn Ala Ala Gly Asn His Gly Ser Gln Lys
      85             90             95
Glu Thr Asp Leu Ile Thr Val Thr Gly Ser Ser Phe Leu Val
      100            105            110

```

<210> 2312

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2312

```

Met Lys Met Ser Phe Phe Glu Arg Leu Arg Ser Ala Thr Trp Lys Pro
  1             5             10             15
Val Pro Asp Ser His Gln Gly Pro Ala Phe Tyr Cys Gly Thr Leu Lys
      20             25             30

```

Ala Gly Pro Ser Pro Lys Asp Thr Phe Leu Ser Leu Leu Asn Trp Asn
 35 40 45
 Tyr Gly Phe Val Phe Ile Asn Gly Arg Asn Leu Gly Arg Tyr Trp Asn
 50 55 60
 Ile Gly Pro Gln Lys Thr Leu Tyr Leu Pro Gly Val Trp Leu His Pro
 65 70 75 80
 Glu Asp Asn Glu Val Ile Leu Phe Glu Lys Met Met Ser Gly Ser Asp
 85 90 95
 Ile Lys Ser Thr Asp Lys Pro Thr Pro
 100 105

<210> 2313

<211> 567

<212> PRT

<213> Homo sapiens

<400> 2313

Met Ala Ala Pro Gln Gly Leu Ala Ala Thr Ser Pro Ser Pro Arg Leu
 1 5 10 15
 Ser Ala Gly Pro Arg Pro Thr Ser Val Thr Trp Cys Ser Ser Ser Phe
 20 25 30
 Trp Trp Thr Pro Ile Pro Phe Pro Leu Ala Ile Ser Ala Thr Thr Pro
 35 40 45
 Ser Pro Pro Arg Trp Pro Arg Trp Arg Ser Arg His Arg Pro Ala Pro
 50 55 60
 Arg Ser Pro Ser Ser Gly Trp Pro Gln Ser Ala Pro His Arg Glu Gly
 65 70 75 80
 Arg Tyr Leu Ser Glu Glu Pro Glu Pro Tyr Leu Ala Val Tyr Leu His
 85 90 95
 Ser Glu Pro Arg Pro Asn Glu Arg Asn Cys Ser Ala Ser Arg Arg Ile
 100 105 110
 Arg Pro Glu Ser Leu Gln Gly Ala Asp His Arg Pro Tyr Thr Phe Phe
 115 120 125
 Ile Ser Pro Gly Thr Arg Asp Pro Val Gly Ser Tyr Arg Leu Asn Leu
 130 135 140

Ser Ser His Phe Arg Trp Ser Ala Leu Glu Val Ser Val Gly Leu Tyr
 145 150 155 160
 Thr Ser Leu Cys Gln Tyr Phe Ser Glu Glu Asp Val Val Trp Arg Thr
 165 170 175
 Glu Gly Leu Leu Pro Leu Glu Glu Thr Ser Pro Arg Gln Ala Val Cys
 180 185 190

 Leu Thr Arg His Leu Thr Ala Phe Gly Thr Ser Leu Phe Met Pro Pro
 195 200 205
 Ser His Val Arg Phe Val Phe Pro Glu Pro Thr Ala Asp Val Asn Tyr
 210 215 220
 Ile Val Met Leu Thr Cys Ala Val Cys Leu Val Thr Tyr Met Val Met
 225 230 235 240
 Ala Ala Ile Leu His Lys Leu Asp Gln Leu Asp Ala Ser Arg Gly Cys
 245 250 255
 Ala Ile Pro Phe Cys Gly Gln Arg Gly Arg Phe Lys Tyr Glu Ile Leu
 260 265 270
 Val Lys Thr Gly Trp Gly Arg Gly Ser Gly Thr Thr Ala His Val Gly
 275 280 285
 Ile Met Leu Tyr Gly Val Asp Ser Arg Ser Gly His Arg His Leu Asp
 290 295 300
 Gly Asp Arg Ala Phe His Arg Asn Ser Leu Asp Ile Phe Gln Ile Ala
 305 310 315 320
 Thr Pro His Ser Leu Gly Ser Val Trp Lys Ile Arg Val Trp His Asp
 325 330 335
 Asn Lys Gly Leu Ser Pro Ala Trp Phe Leu Gln His Ile Ile Val Arg
 340 345 350
 Asp Leu Gln Thr Ala Arg Ser Thr Phe Phe Leu Val Asn Asp Trp Leu
 355 360 365
 Ser Val Glu Thr Glu Ala Asn Gly Gly Leu Val Glu Lys Glu Val Leu
 370 375 380
 Ala Ala Ser His Ala Ala Leu Leu Arg Phe Arg Arg Leu Leu Val Ala
 385 390 395 400
 Glu Leu Gln Arg Gly Phe Phe Asp Lys His Ile Trp Leu Ser Ile Trp
 405 410 415
 Asp Arg Pro Pro Arg Ser Cys Phe Thr Arg Ile Gln Arg Ala Thr Cys

420 425 430
 Cys Val Leu Leu Ile Cys Leu Phe Leu Gly Ala Asn Ala Val Trp Tyr
 435 440 445
 Gly Ala Val Gly Asp Ser Ala Tyr Ser Thr Gly Arg Val Ser Arg Leu
 450 455 460
 Asn Pro Leu Ser Val Asp Thr Val Ala Val Gly Leu Val Ser Ser Val
 465 470 475 480
 Val Val Tyr Pro Val Tyr Leu Val Ile Leu Phe Leu Phe Arg Met Ser
 485 490 495
 Arg Ser Lys Val Ala Gly Ser Pro Ser Pro Thr Pro Ala Gly Gln Gln
 500 505 510
 Val Leu Asp Val Asp Ser Cys Leu Asp Ser Ser Val Leu Asp Ser Ser
 515 520 525
 Phe Leu Thr Phe Ser Gly Leu His Ala Glu Val Arg Ala Leu Leu Gly
 530 535 540
 Val Leu Pro Pro Trp Arg Ser Leu Asp Ser Arg Pro Cys Ala Pro Leu
 545 550 555 560
 Ser Arg Pro Leu Leu Asp Arg
 565

<210> 2314

<211> 314

<212> PRT

<213> Homo sapiens

<400> 2314

Met Pro Lys Ser Pro Phe Lys Arg Lys Arg Thr Thr Asn Glu Ile Lys
 1 5 10 15
 Asn Leu Gln Tyr Leu Pro Arg Thr Ser Glu Pro Arg Glu Met Leu Phe
 20 25 30
 Glu Asp Arg Thr Arg Ala His Ala Asp His Ile Gly Gln Gly Phe Glu
 35 40 45
 Arg Gln Thr Thr Ala Ala Val Gly Val Leu Lys Ala Val His Cys Gly
 50 55 60
 Glu Trp Pro Asp Gln Pro Arg Ile Thr Lys Asp Val Ile Cys Phe His

65	70	75	80
Ala Glu Asp Phe Leu Glu Val Val Gln Arg Met Gln Leu Asp Leu His			
	85	90	95
Glu Pro Pro Leu Ser Gln Cys Val Gln Trp Val Asp Asp Ala Lys Leu			
	100	105	110
Asn Gln Leu Arg Arg Glu Gly Ile Arg Tyr Ala Arg Ile Gln Leu Tyr			
	115	120	125
Asp Asn Asp Ile Tyr Phe Ile Pro Arg Asn Val Val His Gln Phe Lys			
	130	135	140
Thr Val Ser Ala Val Cys, Ser Leu Ala Trp His Ile Arg Leu Lys Leu			
145	150	155	160
Tyr His Ser Glu Glu Asp Thr Ser Gln Asn Thr Ala Thr His Glu Thr			
	165	170	175
Gly Thr Ser Ser Asp Ser Thr Ser Ser Val Leu Gly Pro His Thr Asp			
	180	185	190
Asn Met Ile Cys Ala Val Ser Lys Ala Ser Leu Asp Ser Val Phe Ser			
	195	200	205
Asp Lys Leu His Ser Lys Tyr Glu Leu Gln Gln Ile Lys His Glu Pro			
	210	215	220
Ile Ala Ser Val Arg Ile Lys Glu Glu Pro Val Asn Val Asn Ile Pro			
225	230	235	240
Glu Lys Thr Thr Ala Leu Asn Asn Met Asp Gly Lys Asn Val Lys Ala			
	245	250	255
Lys Leu Asp His Val Gln Phe Ala Glu Phe Lys Ile Asp Met Asp Ser			
	260	265	270
Lys Phe Glu Ser Ser Asn Lys Asp Leu Lys Glu Glu Leu Cys Pro Gly			
	275	280	285
Asn Leu Ser Leu Val Asp Thr Arg Gln His Ser Ser Ala His Ser Asn			
	290	295	300
Gln Asp Lys Lys Asp Asp Asp Ile Leu Cys			
305	310		

<210> 2315

<211> 200

<212> PRT

<213> Homo sapiens

<400> 2315

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Met Ala Gln Gln Arg Ala Leu Pro Gln Ser Lys Glu Thr Leu Leu Gln
 1             5             10            15
Ser Tyr Asn Lys Arg Leu Lys Asp Asp Ile Lys Ser Ile Met Asp Asn
      20             25            30
Phe Thr Glu Ile Ile Lys Thr Ala Lys Ile Glu Asp Glu Thr Gln Val
      35             40            45
Ser Arg Ala Thr Gln Gly Glu Gln Asp Asn Tyr Glu Met His Val Arg
      50             55            60
Ala Ala Asn Ile Val Arg Ala Gly Glu Ser Leu Met Lys Leu Val Ser
      65             70            75            80
Asp Leu Lys Gln Phe Leu Ile Leu Asn Asp Phe Pro Ser Val Asn Glu
      85             90            95
Ala Ile Asp Gln Arg Asn Gln Gln Leu Arg Thr Leu Gln Glu Glu Cys
      100            105            110
Asp Arg Lys Leu Ile Thr Leu Arg Asp Glu Ile Ser Ile Asp Leu Tyr
      115            120            125
Glu Leu Glu Glu Glu Tyr Tyr Ser Ser Ser Ser Ser Leu Cys Glu Ala
      130            135            140
Asn Asp Leu Pro Leu Cys Glu Ala Tyr Gly Arg Leu Asp Leu Asp Thr
      145            150            155            160
Asp Ser Ala Asp Gly Leu Ser Ala Pro Leu Leu Ala Ser Pro Glu Pro
      165            170            175
Ser Ala Gly Pro Leu Gln Val Ala Ala Pro Ala His Ser His Ala Gly
      180            185            190
Gly Pro Gly Pro Thr Glu His Ala
      195            200

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<210> 2316

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2316

Met Thr Thr Ala Thr Pro Leu Gly Asp Thr Thr Phe Phe Ser Leu Asn
 1 5 10 15
 Met Thr Thr Arg Gly Glu Asp Phe Leu Tyr Lys Ser Ser Gly Ala Ile
 20 25 30
 Val Ala Ala Val Val Val Val Val Ile Ile Ile Phe Thr Val Val Leu
 35 40 45
 Ile Leu Leu Lys Met Tyr Asn Arg Lys Met Arg Thr Arg Arg Glu Leu
 50 55 60
 Glu Pro Lys Gly Pro Lys Pro Thr Ala Pro Ser Ala Val Gly Pro Asn
 65 70 75 80
 Ser Asn Gly Ser Gln His Pro Ala Thr Val Thr Phe Ser Pro Val Asp
 85 90 95
 Val Gln Val Glu Thr Arg
 100

<210> 2317

<211> 133

<212> PRT

<213> Homo sapiens

<400> 2317

Met Val Met Leu Glu Asp Ser Asn Ser Ser Thr Gly Cys Gly Ala Arg
 1 5 10 15
 Asn Cys Val Glu Cys Leu Val Phe Leu Ser Val Leu Gly Cys Gln Ser
 20 25 30
 Glu Arg Lys Gly Gln Met Arg Thr Gln Gln Ala Gly Arg Trp Leu Arg
 35 40 45
 Ala Gly Arg Glu Ala Ser Ser Glu Thr Asn Pro Glu Gly Thr Leu Ile
 50 55 60
 Leu Asp Phe Gln Ser Pro Glu Leu Pro Leu Ala Ala Arg Gly Trp Gln
 65 70 75 80
 Glu His Glu Pro Val Val Arg Cys Asn Val Leu Pro His Ala Phe Ser
 85 90 95
 Ser Trp Cys Phe Gly Gln Asn Phe Pro Lys Trp Ser Glu Thr Gln Glu

100 105 110
 Leu Arg Asn Arg Val Thr Val Lys Arg Trp Glu Ile Ile Ser Cys Glu
 115 120 125
 Asn Ser Gly Arg Lys
 130

<210> 2318

<211> 224

<212> PRT

<213> Homo sapiens

<400> 2318

Met Tyr Arg Pro Ala Thr Ala Leu Gly Ser Asn Arg Ala Val Gln Leu
 1 5 10 15
 Leu Leu Glu Thr Ser Ala Asp Asn Gln His Tyr Tyr Cys Asp Ser Leu
 20 25 30
 Lys Ala Cys Leu Val Thr Thr Val Thr Ser Ser Gly Pro Ser Gln Ser
 35 40 45
 Thr Ile Lys Leu Val Ala Thr Asn Met Ile Ala Asn Gly Lys Leu Ala
 50 55 60
 Glu Gly Val Gln Leu Leu Cys Leu Ile Asp Lys Ala Ala Asp Ala Cys
 65 70 75 80
 Arg Tyr Leu Gln Thr Tyr Gly Glu Trp Asn Arg Ala Ala Trp Leu Ala
 85 90 95
 Lys Val Arg Leu Asn Pro Glu Glu Cys Ala Asp Val Leu Arg Arg Trp
 100 105 110
 Val Asp His Leu Cys Ser Pro Gln Val Asn Gln Lys Ser Lys Ala Leu
 115 120 125
 Leu Val Leu Leu Ser Leu Gly Cys Phe Phe Ser Val Ala Glu Thr Leu
 130 135 140
 His Ser Met Arg Tyr Phe Asp Arg Ala Ala Leu Phe Val Glu Ala Cys
 145 150 155 160
 Leu Lys Tyr Gly Ala Phe Glu Val Thr Glu Asp Thr Glu Lys Leu Ile
 165 170 175
 Thr Ala Ile Tyr Ala Asp Tyr Ala Arg Ser Ser Lys Asn Leu Gly Phe

	180		185		190										
Lys	Gln	Gly	Ala	Val	Leu	Phe	Ala	Ser	Lys	Ala	Gly	Ala	Ala	Gly	Lys
	195		200		205										
Asp	Leu	Leu	Asn	Glu	Leu	Glu	Ser	Pro	Lys	Glu	Glu	Pro	Ile	Glu	Glu
	210		215		220										

<210> 2319

<211> 111

<212> PRT

<213> Homo sapiens

<400> 2319

Met	Pro	Gly	Ser	Leu	Lys	Arg	Asp	His	Ile	Leu	Tyr	His	Leu	Ile	Leu
1				5						10					15

Ile	Trp	Gly	Ile	Ile	Phe	Ile	Ser	His	Gln	Asp	Lys	Ile	Pro	Gly	Gly
		20						25					30		
Gly	Ile	Thr	Cys	Lys	Val	His	Thr	Ser	Pro	Pro	Met	Tyr	Ser	Leu	Asp
		35					40					45			
Arg	Ile	Phe	Ala	Gly	Phe	Arg	Thr	Gln	Ser	Gln	Met	Leu	Leu	Asp	His
	50					55					60				
Val	Glu	Glu	Arg	Asp	Glu	Val	Leu	His	Cys	Gln	Phe	Ser	Asp	Asn	Ser
	65				70					75				80	
Asp	Asp	Glu	Glu	Ser	Glu	Gly	Gln	Glu	Lys	Ser	Gly	Thr	Arg	Cys	Arg
			85					90					95		
Ser	Arg	Ser	Trp	Ile	Gln	Lys	Pro	Asp	Ser	Val	Pro	Leu	Leu	Asn	
			100				105						110		

<210> 2320

<211> 733

<212> PRT

<213> Homo sapiens

<400> 2320

Met Pro Ala Glu Thr Asp Glu Cys Arg Leu Asn Gln Asn Ile Cys Gly
 1 5 10 15
 His Gly Glu Cys Val Pro Gly Pro Pro Asp Tyr Ser Cys Tyr Cys Asn
 20 25 30
 Pro Gly Tyr Arg Ser His Pro Gln His Arg Tyr Cys Val Asp Val Asn
 35 40 45
 Glu Cys Glu Ala Glu Pro Cys Gly Pro Gly Arg Gly Ile Cys Met Asn
 50 55 60
 Thr Gly Gly Ser Tyr Asn Cys His Cys Asn Arg Gly Tyr Arg Leu His
 65 70 75 80
 Val Gly Ala Gly Gly Arg Ser Cys Val Asp Leu Asn Glu Cys Ala Lys
 85 90 95
 Pro His Leu Cys Gly Asp Gly Gly Phe Cys Ile Asn Phe Pro Gly His
 100 105 110
 Tyr Lys Cys Asn Cys Tyr Pro Gly Tyr Arg Leu Lys Ala Ser Arg Pro
 115 120 125
 Pro Val Cys Glu Asp Ile Asp Glu Cys Arg Asp Pro Ser Ser Cys Pro
 130 135 140
 Asp Gly Lys Cys Glu Asn Lys Pro Gly Ser Phe Lys Cys Ile Ala Cys
 145 150 155 160
 Gln Pro Gly Tyr Arg Ser Gln Gly Gly Gly Ala Cys Arg Asp Val Asn
 165 170 175
 Glu Cys Ala Glu Gly Ser Pro Cys Ser Pro Gly Trp Cys Glu Asn Leu
 180 185 190
 Pro Gly Ser Phe Arg Cys Thr Cys Ala Gln Gly Tyr Ala Pro Ala Pro
 195 200 205
 Asp Gly Arg Ser Cys Leu Asp Val Asp Glu Cys Glu Ala Gly Asp Val
 210 215 220
 Cys Asp Asn Gly Ile Cys Ser Asn Thr Pro Gly Ser Phe Gln Cys Gln
 225 230 235 240
 Cys Leu Ser Gly Tyr His Leu Ser Arg Asp Arg Ser His Cys Glu Asp
 245 250 255
 Ile Asp Glu Cys Asp Phe Pro Ala Ala Cys Ile Gly Gly Asp Cys Ile
 260 265 270
 Asn Thr Asn Gly Ser Tyr Arg Cys Leu Cys Pro Gln Gly His Arg Leu
 275 280 285

Val Gly Gly Arg Lys Cys Gln Asp Ile Asp Glu Cys Ser Gln Asp Pro			
290	295	300	
Ser Leu Cys Leu Pro His Gly Ala Cys Lys Asn Leu Gln Gly Ser Tyr			
305	310	315	320
Val Cys Val Cys Asp Glu Gly Phe Thr Pro Thr Gln Asp Gln His Gly			
	325	330	335
Cys Glu Glu Val Glu Gln Pro His His Lys Lys Glu Cys Tyr Leu Asn			
	340	345	350
Phe Asp Asp Thr Val Phe Cys Asp Ser Val Leu Ala Thr Asn Val Thr			
	355	360	365
Gln Gln Glu Cys Cys Cys Ser Leu Gly Ala Gly Trp Gly Asp His Cys			
	370	375	380
Glu Ile Tyr Pro Cys Pro Val Tyr Ser Ser Ala Glu Phe His Ser Leu			
385	390	395	400
Cys Pro Asp Gly Lys Gly Tyr Thr Gln Asp Asn Ile Ile Val Asn Tyr			
	405	410	415
Gly Ile Pro Ala His Arg Asp Ile Asp Glu Cys Met Leu Phe Gly Ser			
	420	425	430
Glu Ile Cys Lys Glu Gly Lys Cys Val Asn Thr Gln Pro Gly Tyr Glu			
	435	440	445
Cys Tyr Cys Lys Gln Gly Phe Tyr Tyr Asp Gly Asn Leu Leu Glu Cys			
	450	455	460
Val Asp Val Asp Glu Cys Leu Asp Glu Ser Asn Cys Arg Asn Gly Val			
465	470	475	480
Cys Glu Asn Thr Arg Gly Gly Tyr Arg Cys Ala Cys Thr Pro Pro Ala			
	485	490	495
Glu Tyr Ser Pro Ala Gln Arg Gln Cys Leu Ser Pro Glu Glu Met Asp			
	500	505	510
Val Asp Glu Cys Gln Asp Pro Ala Ala Cys Arg Pro Gly Arg Cys Val			
	515	520	525
Asn Leu Pro Gly Ser Tyr Arg Cys Glu Cys Arg Pro Pro Trp Val Pro			
	530	535	540
Gly Pro Ser Gly Arg Asp Cys Gln Leu Pro Glu Ser Pro Ala Glu Arg			
545	550	555	560
Ala Pro Glu Arg Arg Asp Val Cys Trp Ser Gln Arg Gly Glu Asp Gly			
	565	570	575

Met Cys Ala Gly Pro Leu Ala Gly Pro Ala Leu Thr Phe Asp Asp Cys
 580 585 590
 Cys Cys Arg Gln Gly Arg Gly Trp Gly Ala Gln Cys Arg Pro Cys Pro
 595 600 605
 Pro Arg Gly Ala Gly Ser His Cys Pro Thr Ser Gln Ser Glu Ser Asn
 610 615 620
 Ser Phe Trp Asp Thr Ser Pro Leu Leu Leu Gly Lys Pro Pro Arg Asp
 625 630 635 640
 Glu Asp Ser Ser Glu Glu Asp Ser Asp Glu Cys Arg Cys Val Ser Gly
 645 650 655
 Arg Cys Val Pro Arg Pro Gly Gly Ala Val Cys Glu Cys Pro Gly Gly
 660 665 670
 Phe Gln Leu Asp Ala Ser Arg Ala Arg Cys Val Asp Ile Asp Glu Cys
 675 680 685
 Arg Glu Leu Asn Gln Arg Gly Leu Leu Cys Lys Ser Glu Arg Cys Val
 690 695 700
 Asn Thr Ser Gly Ser Phe Arg Cys Val Cys Lys Ala Gly Phe Ala Arg
 705 710 715 720
 Ser Arg Pro His Gly Ala Cys Val Pro Gln Arg Arg Arg
 725 730

<210> 2321

<211> 841

<212> PRT

<213> Homo sapiens

<400> 2321

Met Thr Val Leu Glu Gln Asp Thr Gln Gly Leu Asp Gly Trp Trp Leu
 1 5 10 15
 Cys Ser Leu His Gly Arg Gln Gly Ile Val Pro Gly Asn Arg Leu Lys
 20 25 30
 Ile Leu Val Gly Met Tyr Asp Lys Lys Pro Ala Gly Pro Gly Ser Gly
 35 40 45
 Pro Pro Ala Thr Pro Ala Gln Pro Gln Pro Gly Leu His Ala Pro Ala
 50 55 60

Pro Pro Ala Ser Gln Tyr Thr Pro Met Leu Pro Asn Thr Tyr Gln Pro
 65 70 75 80
 Gln Pro Asp Ser Val Tyr Leu Val Pro Thr Pro Ser Lys Ala Gln Gln
 85 90 95
 Gly Leu Tyr Gln Val Pro Gly Pro Ser Pro Gln Phe Gln Ser Pro Pro
 100 105 110
 Ala Lys Gln Thr Ser Thr Phe Ser Lys Gln Thr Pro His His Pro Phe
 115 120 125
 Pro Ser Pro Ala Thr Asp Leu Tyr Gln Val Pro Pro Gly Pro Gly Gly
 130 135 140
 Pro Ala Gln Asp Ile Tyr Gln Val Pro Pro Ser Ala Gly Met Gly His
 145 150 155 160
 Asp Ile Tyr Gln Val Pro Pro Ser Met Asp Thr Arg Ser Trp Glu Gly
 165 170 175
 Thr Lys Pro Pro Ala Lys Val Val Val Pro Thr Arg Val Gly Gln Gly
 180 185 190
 Tyr Val Tyr Glu Ala Ala Gln Pro Glu Gln Asp Glu Tyr Asp Ile Pro
 195 200 205
 Arg His Leu Leu Ala Pro Gly Pro Gln Asp Ile Tyr Asp Val Pro Pro
 210 215 220
 Val Arg Gly Leu Leu Pro Ser Gln Tyr Gly Gln Glu Val Tyr Asp Thr
 225 230 235 240
 Pro Pro Met Ala Val Lys Gly Pro Asn Gly Arg Asp Pro Leu Leu Glu
 245 250 255
 Val Tyr Asp Val Pro Pro Ser Val Glu Lys Gly Leu Pro Pro Ser Asn
 260 265 270
 His His Ala Val Tyr Asp Val Pro Pro Ser Val Ser Lys Asp Val Pro
 275 280 285
 Asp Gly Pro Leu Leu Arg Glu Glu Thr Tyr Asp Val Pro Pro Ala Phe
 290 295 300
 Ala Lys Ala Lys Pro Phe Asp Pro Ala Arg Thr Pro Leu Val Leu Ala
 305 310 315 320
 Ala Pro Pro Pro Asp Ser Pro Pro Ala Glu Asp Val Tyr Asp Val Pro
 325 330 335
 Pro Pro Ala Pro Asp Leu Tyr Asp Val Pro Pro Gly Leu Arg Arg Pro

340	345	350
Gly Pro Gly Thr Leu Tyr Asp Val Pro Arg Glu Arg Val Leu Pro Pro		
355	360	365
Glu Val Ala Asp Gly Gly Val Val Asp Ser Gly Val Tyr Ala Val Pro		
370	375	380
Pro Pro Ala Glu Arg Glu Ala Pro Ala Glu Gly Lys Arg Leu Ser Ala		
385	390	395
Ser Ser Thr Gly Ser Thr Arg Ser Ser Gln Ser Ala Ser Ser Leu Glu		
405	410	415
Val Ala Gly Pro Gly Arg Glu Pro Leu Glu Leu Glu Val Ala Val Glu		
420	425	430
Ala Leu Ala Arg Leu Gln Gln Gly Val Ser Ala Thr Val Ala His Leu		
435	440	445
Leu Asp Leu Ala Gly Ser Ala Gly Ala Thr Gly Ser Trp Arg Ser Pro		
450	455	460
Ser Glu Pro Gln Glu Pro Leu Val Gln Asp Leu Gln Ala Ala Val Ala		
465	470	475
Ala Val Gln Ser Ala Val His Glu Leu Leu Glu Phe Ala Arg Ser Ala		
485	490	495
Val Gly Asn Ala Ala His Thr Ser Asp Arg Ala Leu His Ala Lys Leu		
500	505	510
Ser Arg Gln Leu Gln Lys Met Glu Asp Val His Gln Thr Leu Val Ala		
515	520	525
His Gly Gln Ala Leu Asp Ala Gly Arg Gly Gly Ser Gly Ala Thr Leu		
530	535	540
Glu Asp Leu Asp Arg Leu Val Ala Cys Ser Arg Ala Val Pro Glu Asp		
545	550	555
Ala Lys Gln Leu Ala Ser Phe Leu His Gly Asn Ala Ser Leu Leu Phe		
565	570	575
Arg Arg Thr Lys Ala Thr Ala Pro Gly Pro Glu Gly Gly Gly Thr Leu		
580	585	590
His Pro Asn Pro Thr Asp Lys Thr Ser Ser Ile Gln Ser Arg Pro Leu		
595	600	605
Pro Ser Pro Pro Lys Phe Thr Ser Gln Asp Ser Pro Asp Gly Gln Tyr		
610	615	620
Glu Asn Ser Glu Gly Gly Trp Met Glu Asp Tyr Asp Tyr Val His Leu		

625	630	635	640
Gln Gly Lys Glu Glu Phe Glu Lys Thr Gln Lys Glu Leu Leu Glu Lys			
	645	650	655
Gly Ser Ile Thr Arg Gln Gly Lys Ser Gln Leu Glu Leu Gln Gln Leu			
	660	665	670
Lys Gln Phe Glu Arg Leu Glu Gln Glu Val Ser Arg Pro Ile Asp His			
	675	680	685
Asp Leu Ala Asn Trp Thr Pro Ala Gln Pro Leu Ala Pro Gly Arg Thr			
	690	695	700
Gly Gly Leu Gly Pro Ser Asp Arg Gln Leu Leu Leu Phe Tyr Leu Glu			
705	710	715	720
Gln Cys Glu Ala Asn Leu Thr Thr Leu Thr Asn Ala Val Asp Ala Phe			
	725	730	735
Phe Thr Ala Val Ala Thr Asn Gln Pro Pro Lys Ile Phe Val Ala His			
	740	745	750
Ser Lys Phe Val Ile Leu Ser Ala His Lys Leu Val Phe Ile Gly Asp			
	755	760	765
Thr Leu Ser Arg Gln Ala Lys Ala Ala Asp Val Arg Ser Gln Val Thr			
	770	775	780
His Tyr Ser Asn Leu Leu Cys Asp Leu Leu Arg Gly Ile Val Ala Thr			
785	790	795	800
Thr Lys Ala Ala Ala Leu Gln Tyr Pro Ser Pro Ser Ala Ala Gln Asp			
	805	810	815
Met Val Glu Arg Val Lys Glu Leu Gly His Ser Thr Gln Gln Phe Arg			
	820	825	830
Arg Val Leu Gly Gln Leu Ala Ala Ala			
	835	840	

<210> 2322

<211> 113

<212> PRT

<213> Homo sapiens

<400> 2322

Met Lys Ser Leu Met Leu Leu Gly Leu His Thr Gln Glu Leu Leu Thr

1 5 10 15
 Leu Met Phe Gly Ala Ser Gly Glu Ser Trp Lys Ser Gly Ser Cys Pro
 20 25 30
 Gly Ser Ile Ser Thr Trp Ser Leu Lys Tyr His Val Ile Pro Pro Ser
 35 40 45
 Pro Ser Gly Leu Ser Ser Ser Pro Trp Ser Leu Trp His Ser Asn Lys
 50 55 60
 His Val Met Gly Gln Gly Phe Arg Arg Val Lys Asn Arg Ile Cys Leu
 65 70 75 80
 Ala Ser Gln Ser Leu Glu Thr His Arg Ala Ser Phe Gln Leu His Ser
 85 90 95
 Cys Trp Ser Glu Pro Val Ile Thr Lys Pro Ala Glu Ile Gln Gly Asn
 100 105 110
 Arg

<210> 2323

<211> 257

<212> PRT

<213> Homo sapiens

<400> 2323

Met Pro Gly Gly Val Gln Gly Ser Gly Leu Thr Arg Pro Arg Gly His
 1 5 10 15
 Pro Gln Asp Asp Leu Trp Pro Arg Val Thr Pro Phe Cys Pro Ala Gly
 20 25 30
 Gln His Ile Tyr Leu Ser Ala Arg Ile Asp Gly Asn Leu Val Val Arg
 35 40 45
 Pro Tyr Thr Pro Ile Ser Ser Asp Asp Asp Lys Gly Phe Val Asp Leu
 50 55 60
 Val Ile Lys Val Tyr Phe Lys Asp Thr His Pro Lys Phe Pro Ala Gly
 65 70 75 80
 Gly Lys Met Ser Gln Tyr Leu Glu Ser Met Gln Ile Gly Asp Thr Ile
 85 90 95
 Glu Phe Arg Gly Pro Ser Gly Leu Leu Val Tyr Gln Gly Lys Gly Lys

100	105	110
Phe Ala Ile Arg Pro Asp Lys Lys Ser Asn Pro Ile Ile Arg Thr Val		
115	120	125
Lys Ser Val Gly Met Ile Ala Gly Gly Thr Gly Ile Thr Pro Met Leu		
130	135	140
Gln Val Ile Arg Ala Ile Met Lys Asp Pro Asp Asp His Thr Val Cys		
145	150	155
His Leu Leu Phe Ala Asn Gln Thr Glu Lys Asp Ile Leu Leu Arg Pro		
165	170	175
Glu Leu Glu Glu Leu Arg Asn Lys His Ser Ala Arg Phe Lys Leu Trp		
180	185	190
Tyr Thr Leu Asp Arg Ala Pro Glu Ala Trp Asp Tyr Gly Gln Gly Phe		
195	200	205
Val Asn Glu Glu Met Ile Arg Asp His Leu Pro Pro Pro Glu Glu Glu		
210	215	220
Pro Leu Val Leu Met Cys Gly Pro Pro Pro Met Ile Gln Tyr Ala Cys		
225	230	235
Leu Pro Asn Leu Asp His Val Gly His Pro Thr Glu Arg Cys Phe Val		
245	250	255
Phe		

<210> 2324

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2324

Met Ala Gly Gly Lys Gly Ala Lys Gln Ile Phe Pro Thr Phe Tyr Leu
1 5 10 15
Ala Asn Leu Ser Phe Ala Ala Val Met Cys Gln Val Leu Gly Cys Trp
20 25 30
Gly Ile Pro Ser Glu Gln Ser Leu Phe Ser Thr Leu Glu Glu Leu Arg
35 40 45
Glu Lys Glu Ile Asp Asn Tyr Cys Val Met Arg Leu Gln Thr Glu Gly

50 55 60
 Leu Ala Ser Ala His Pro Ser Trp Ala Ser Arg Gly His Cys Ser Ile
 65 70 75 80
 Thr Thr Arg Pro Cys Thr Pro Ala Ser Pro Pro Ser Pro Ser Trp Ala
 85 90 95
 Trp Ala Pro Leu
 100

<210> 2325

<211> 449

<212> PRT

<213> Homo sapiens

<400> 2325

Met Met Leu Gly Thr Glu Gly Gly Glu Gly Phe Val Val Lys Val Arg
 1 5 10 15
 Gly Leu Pro Trp Ser Cys Ser Ala Asp Glu Val Gln Arg Phe Phe Ser
 20 25 30
 Asp Cys Lys Ile Gln Asn Gly Ala Gln Gly Ile Arg Phe Ile Tyr Thr
 35 40 45
 Arg Glu Gly Arg Pro Ser Gly Glu Ala Phe Val Glu Leu Glu Ser Glu
 50 55 60
 Asp Glu Val Lys Leu Ala Leu Lys Lys Asp Arg Glu Thr Met Gly His
 65 70 75 80
 Arg Tyr Val Glu Val Phe Lys Ser Asn Asn Val Glu Met Asp Trp Val
 85 90 95
 Leu Lys His Thr Gly Pro Asn Ser Pro Asp Thr Ala Asn Asp Gly Phe
 100 105 110
 Val Arg Leu Arg Gly Leu Pro Phe Gly Cys Ser Lys Glu Glu Ile Val
 115 120 125
 Gln Phe Phe Ser Gly Leu Glu Ile Val Pro Asn Gly Ile Thr Leu Pro
 130 135 140
 Val Asp Phe Gln Gly Arg Ser Thr Gly Glu Ala Phe Val Gln Phe Ala
 145 150 155 160
 Ser Gln Glu Ile Ala Glu Lys Ala Leu Lys Lys His Lys Glu Arg Ile

	165	170	175
Gly His Arg Tyr Ile Glu Ile Phe Lys Ser Ser Arg Ala Glu Val Arg			
	180	185	190
Thr His Tyr Asp Pro Pro Arg Lys Leu Met Ala Met Gln Arg Pro Gly			
	195	200	205
Pro Tyr Asp Arg Pro Gly Ala Gly Arg Gly Tyr Asn Ser Ile Gly Arg			
	210	215	220
Gly Ala Gly Phe Glu Arg Met Arg Arg Gly Ala Tyr Gly Gly Gly Tyr			
225	230	235	240
Gly Gly Tyr Asp Asp Tyr Asn Gly Tyr Asn Asp Gly Tyr Gly Phe Gly			
	245	250	255
Ser Asp Arg Phe Gly Arg Asp Leu Asn Tyr Cys Phe Ser Gly Met Ser			
	260	265	270
Asp His Arg Tyr Gly Asp Gly Gly Ser Thr Phe Gln Ser Thr Thr Gly			
	275	280	285
His Cys Val His Met Arg Gly Leu Pro Tyr Arg Ala Thr Glu Asn Asp			
	290	295	300
Ile Tyr Asn Phe Phe Ser Pro Leu Asn Pro Val Arg Val His Ile Glu			
305	310	315	320
Ile Gly Pro Asp Gly Arg Val Thr Gly Glu Ala Asp Val Glu Phe Ala			
	325	330	335
Thr His Glu Asp Ala Val Ala Ala Met Ser Lys Asp Lys Ala Asn Met			
	340	345	350
Gln His Arg Tyr Val Glu Leu Phe Leu Asn Ser Thr Ala Gly Ala Ser			
	355	360	365
Gly Gly Ala Tyr Glu His Arg Tyr Val Glu Leu Phe Leu Asn Ser Thr			
	370	375	380
Ala Gly Ala Ser Gly Gly Ala Tyr Gly Ser Gln Met Met Gly Gly Met			
385	390	395	400
Gly Leu Ser Asn Gln Ser Ser Tyr Gly Gly Pro Ala Ser Gln Gln Leu			
	405	410	415
Ser Gly Gly Tyr Gly Gly Gly Tyr Gly Gly Gln Ser Ser Met Ser Gly			
	420	425	430
Tyr Asp Gln Val Leu Gln Glu Asn Ser Ser Asp Phe Gln Ser Asn Ile			
	435	440	445
Ala			

<210> 2326

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2326

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Met Asp Ile Pro Lys Cys Tyr Pro Pro Cys Lys Val Ser Trp Pro Pro
  1             5             10             15
Lys Leu Glu Asp Val Thr Asp Pro Pro Leu Pro Asn Thr Glu Gly Ser
             20             25             30
Cys Cys Cys Ser His Gly His Pro Phe Thr Gln Pro Ala Ser Leu Lys
             35             40             45
Cys Arg Leu Pro Ser His Pro Ser Leu Lys Ala Pro Val Leu Val Thr
             50             55             60
Leu Pro Ile Thr Ala Gln Thr Arg Ala His Tyr Val Pro Glu Ala Glu
  65             70             75             80
Asp Phe Gln Arg Asn Tyr Leu Phe Val Lys Ile Gln Ser Asn Ile Tyr
             85             90             95
Ile Thr Tyr Leu Tyr His Gln Tyr Cys Leu His Met Phe
             100            105

```

<210> 2327

<211> 152

<212> PRT

<213> Homo sapiens

<400> 2327

```

Met Gly Arg Ser Gly Cys Gly Ser Arg Gly Gly Ile Leu Ser Trp Arg
  1             5             10             15
Ala Pro Gln Arg Ser Pro Gly Ser Leu Ser Pro Trp Leu Leu Gly Arg
             20             25             30
Arg Gly Arg Arg Pro Trp Gly Ser Ser Arg Gly Leu Gly Gly Gly Asp

```

35 40 45
 Arg Trp Leu Gly Met Glu Glu Ala Lys Pro Arg Ala Phe Ser Pro Ala
 50 55 60
 Pro Ala Gly Asp Phe Gln Ala Pro Ser Thr Ala Asp Arg Ala Arg Ala
 65 70 75 80
 Arg Gly Arg Trp Cys Gly Asp Leu Pro Gly Leu Trp Gly His Glu Arg
 85 90 95
 Leu Pro Asp Ala Leu Ala Pro Gln Ala Leu Leu Val Thr Gly Thr Gly
 100 105 110
 Leu Gly Ser Ile Trp Ala Thr Ala Val Thr Leu Arg Pro Leu Leu Arg
 115 120 125
 Pro Gly Gln Gly Ser Val Gly Ala Gly Arg Lys Gly Thr His Ser Phe
 130 135 140
 Leu Gly Ala Pro Val Trp Pro Ala
 145 150

<210> 2328

<211> 229

<212> PRT

<213> Homo sapiens

<400> 2328

Met Asn His Glu Trp Ile Gly Asn Glu Trp Leu Pro Ser Leu Gly Leu
 1 5 10 15
 Pro Gln Tyr Arg Ser Tyr Phe Met Glu Cys Leu Val Asp Ala Arg Met
 20 25 30
 Leu Asp His Leu Thr Lys Lys Asp Leu Arg Val His Leu Lys Met Val
 35 40 45
 Asp Ser Phe His Arg Thr Ser Leu Gln Tyr Gly Ile Met Cys Leu Lys
 50 55 60
 Arg Leu Asn Tyr Asp Arg Lys Glu Leu Glu Lys Arg Arg Glu Glu Ser
 65 70 75 80
 Gln His Glu Ile Lys Asp Val Leu Val Trp Thr Asn Asp Gln Val Val
 85 90 95
 His Trp Val Gln Ser Ile Gly Leu Arg Asp Tyr Ala Gly Asn Leu His

100 105 110
 Glu Ser Gly Val His Gly Ala Leu Leu Ala Leu Asp Glu Asn Phe Asp
 115 120 125
 His Asn Thr Leu Ala Leu Ile Leu Gln Ile Pro Thr Gln Asn Thr Gln
 130 135 140
 Ala Arg Gln Val Met Glu Arg Glu Phe Asn Asn Leu Leu Ala Leu Gly
 145 150 155 160
 Thr Asp Arg Lys Leu Asp Asp Gly Asp Asp Lys Val Phe Arg Arg Ala
 165 170 175
 Pro Ser Trp Arg Lys Arg Phe Arg Pro Arg Glu His His Gly Arg Gly
 180 185 190
 Gly Met Leu Ser Ala Ser Ala Glu Thr Leu Pro Ala Gly Phe Arg Val
 195 200 205
 Ser Thr Leu Gly Thr Leu Gln Pro Pro Pro Ala Pro Pro Lys Lys Ile
 210 215 220
 Met Pro Glu Gly Glu
 225

<210> 2329

<211> 170

<212> PRT

<213> Homo sapiens

<400> 2329

Met Asn Arg Leu Leu Phe Phe Lys Ser Gln Gly Leu Ala Leu Leu Pro
 1 5 10 15
 Arg Leu Lys Cys Ser Gly Ala Ile Ile Ala His Cys Asn Phe Glu Leu
 20 25 30
 Leu Gly Ser Ser Asn Phe Pro Asp Leu Ala Ser Glu Arg Ala Gly Thr
 35 40 45
 Thr Ala Phe Gly Thr Val Val Leu Ile Arg Leu Ser Asn His Ile Ala
 50 55 60
 Met Leu Trp Asp Phe Trp Arg Arg Lys Gln Thr Ile Trp Ser Thr Arg
 65 70 75 80
 Thr Leu Asn His His His Leu Val Ser Cys Ile Ser Phe Ile Ile Ile

85 90 95
 Phe Glu Thr Glu Ser His Ser Val Thr Gln Ala Gly Val Gln Trp Cys
 100 105 110
 Asn Leu Ser Ser Leu Gln Pro Pro Pro Gly Phe Lys Arg Phe Ser
 115 120 125
 Cys Leu Thr Leu Pro Thr Ser Trp Asp Tyr Met Gln Met Pro Pro Cys
 130 135 140
 Leu Ala Asn Phe Cys Ile Phe Ser Arg Asp Gly Val Ser Pro Tyr Trp
 145 150 155 160
 Pro Gly Trp Ser Arg Thr Pro Asp Cys Arg
 165 170

<210> 2330

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2330

Met Pro Val Pro Gly Leu Pro Gln Arg Ala Glu Gln Val Cys Phe Ile
 1 5 10 15
 Phe Gly Leu Leu Leu Leu Glu Cys Leu Thr Leu Phe Val Val Leu Phe
 20 25 30
 Pro Trp Tyr Leu Ala Pro Ser Gly Cys Phe Ile Ile Cys Gly Leu Asn
 35 40 45
 Val Glu Asp Ser Ala Gly Glu Pro Val Glu Val Glu Thr Gly Gly Glu
 50 55 60
 Arg Met Leu Leu Gly Cys Gly Asn Gly Phe Leu Lys Cys Trp Asn Phe
 65 70 75 80
 Phe His Gly Pro Leu Ser Ser Val Gly Arg Asn Pro Gln Ala Tyr Pro
 85 90 95
 Val Phe Val Phe Gln Asn Tyr Ser Tyr
 100 105

<210> 2331

<211> 256

<212> PRT

<213> Homo sapiens

<400> 2331

```

Met Thr Leu Ser Ala Trp Gly Leu Ser Ser Val Thr Leu Ser Ala Trp
  1              5              10              15
Gly Leu Ser Ser Val Thr Leu Ser Ala Trp Gly Leu Ser Ser Val Thr
      20              25              30
Leu Ser Ala Trp Gly Leu Ser Ser Val Thr Leu Ser Ala Trp Gly Leu
      35              40              45
Ser Ser Val Thr Leu Ser Ala Trp Gly Leu Ser Ser Val Thr Leu Ser
      50              55              60
Ala Cys Gly Leu Ser Ser Val Thr Leu Ser Ala Trp Gly Leu Ser Ser
      65              70              75              80
Val Thr Leu Ser Ala Trp Gly Leu Ser Ser Val Thr Leu Ser Ala Trp
      85              90              95
Gly Leu Ser Ser Val Thr Leu Ser Ala Trp Gly Leu Ser Ser Val Thr
      100             105             110
Leu Ser Ala Cys Cys Leu Ser Ser Met Thr Leu Ser Ala Cys Gly Leu
      115             120             125
Ser Ser Thr Thr Leu Phe Ala Cys Arg Leu Ser Ser Val Thr Val Ser
      130             135             140
Thr Cys Ser Leu Ser Ser Val Thr Leu Ser Ala Cys Gly Leu Ser Arg
      145             150             155             160
Val Thr Leu Ser Ala Cys Gly Leu Ser Ser Met Thr Pro Ser Ala Cys
      165             170             175
Gly Leu Ser Arg Val Thr Leu Ser Ala Cys His Leu Ser Ser Met Thr
      180             185             190
Val Ser Thr Cys Gly Leu Ser Ser Met Thr Leu Phe Ala Cys Gly Leu
      195             200             205
Ser Ser Met Thr Leu Ser Ala Cys Arg Leu Ser Asn Val Thr Leu Ser
      210             215             220
Asn Phe Pro Leu Ala Ser Ala Pro Gly Glu Val Ala Phe Ser Leu Pro
      225             230             235             240
Cys Cys Leu Leu Phe Ser Cys Lys Val Ser Ser Asp Phe Leu Tyr Pro

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245

250

255

<210> 2332

<211> 255

<212> PRT

<213> Homo sapiens

<400> 2332

Met Pro Val Glu Ser Val Gly Ala Met Glu Pro Leu Pro Gly Ala Leu
 1 5 10 15
 Gln Trp Gly Val Gln Ala Thr Leu Glu Arg Gly Arg Gly Pro Leu Trp
 20 25 30
 Arg Arg Leu Pro Gly Ala Met Gly Ser Arg Gln Lys Ala Ala Thr Glu
 35 40 45
 Gly Pro Ala Gln Val Arg Ala Ala Arg Pro Lys Thr Leu Tyr Ser Pro
 50 55 60
 Trp Thr Val Pro Thr Ser Ala His Thr Ala Val Pro Thr Ser Gly Thr
 65 70 75 80
 Ala Phe Ser Val Cys Arg Asp Pro Ala Ala Gln Ala Ala Ala Val Pro
 85 90 95
 Leu Ala Ser Trp Ser Arg Met Gly Ala Val Cys Arg Ser Pro Leu Ala
 100 105 110
 Ala Val Ala Ser Pro Val Pro Met Pro Leu Gly Ser Trp Pro Arg Pro
 115 120 125
 Arg Arg Cys Ser Trp Thr Ala Lys Thr Ala Pro Val Ser Thr Ser Pro
 130 135 140
 Trp Cys Ala His Thr Arg Ser Val Gln Ser Leu Gly Leu Gly Gln Pro
 145 150 155 160
 Gly Ala Val Ala Arg Pro Pro Val Val Gly Ala Leu Trp Ser Asp Val
 165 170 175
 Gly Leu Val Arg Gly Val Leu Gly Trp His His Ala Arg Pro Arg Thr
 180 185 190
 Gln Ser Asn Gly Arg Ser Val Thr Cys Ser Pro Ala Leu Ser Ala Pro
 195 200 205
 Leu Ala Arg Cys Leu Val Pro Val Pro Pro His Ala Arg Ala Ser Ala

210	215	220	
Gly Ile Cys Ser Leu Val Pro Ser Val Cys Arg Ser Pro Ala Ser Leu			
225	230	235	240
Ala Val Ala Ala Leu Glu Gly Arg Trp Val Arg Gly Ala Val Ser			
245	250	255	

<210> 2333

<211> 139

<212> PRT

<213> Homo sapiens

<400> 2333

Met Ala Arg Ala Gly Val Asp Val Gly Leu Gly Glu Glu Gly Ala His			
1	5	10	15
Gly Arg Ala Pro His Leu Pro Gly Gly Leu Leu Gly Cys Phe Leu Trp			
20	25	30	
Glu Gln Leu Val His Val Pro Ala Arg Pro Ser Pro Ser Gly Ile Arg			
35	40	45	
Arg Gly Phe Ser Trp Thr Leu Trp Pro Pro Pro Pro Pro Arg Ala Arg			
50	55	60	
Val Lys Glu His Pro Ser Pro Leu Val Thr Glu Thr Lys Arg Ser Gly			
65	70	75	80
Pro Ser Arg Gln Val Lys Val Gln Asp Ala Ala Ser Pro Arg Leu Leu			
85	90	95	
Pro Glu Gly Gly Val Glu Pro Pro Arg Ala Pro Asp Arg Ala Ala Ala			
100	105	110	
Arg Ala Phe Ala Gly Phe Phe Pro Leu His Pro Leu Leu Ile Lys Val			
115	120	125	
Gly Ser Leu His Asp Asn Arg Ser Glu Arg Gly			
130	135		

<210> 2334

<211> 134

<212> PRT

<213> Homo sapiens

<400> 2334

Met Asn Phe Asp His Lys Asn Glu Thr Leu Ser Ile Ser Val Gln Pro
 1 5 10 15
 Gly Glu Gly Asn Lys Ala Ala Phe Asn Asp Met Arg Ala Leu Ser Gly
 20 25 30
 Gly Glu Arg Ser Phe Ser Thr Val Cys Phe Ile Leu Ser Leu Trp Ser
 35 40 45
 Ile Ala Glu Ser Pro Phe Arg Cys Leu Asp Glu Phe Asp Val Tyr Met
 50 55 60
 Asp Met Val Asn Arg Arg Ile Ala Met Asp Leu Ile Leu Lys Met Ala
 65 70 75 80
 Asp Ser Gln Arg Phe Arg Gln Phe Ile Leu Leu Thr Pro Gln Ser Met
 85 90 95
 Ser Ser Leu Pro Ser Ser Lys Leu Ile Arg Ile Leu Arg Met Ser Asp
 100 105 110
 Pro Glu Arg Gly Gln Thr Thr Leu Pro Phe Arg Pro Val Thr Gln Glu
 115 120 125
 Glu Asp Asp Asp Gln Arg
 130

<210> 2335

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2335

Met Arg Lys Gly Ile Gly Thr His Arg Ser Asp Asp Asn Gln Ser Pro
 1 5 10 15
 Leu Met Met Pro Ser Val Thr Gln Gly Ser Pro Gln Pro Ala Gln Pro
 20 25 30
 Asp Ser Pro Ala Cys Phe Ser Thr Ala Tyr Leu Gln Gln Ser Asn Cys
 35 40 45
 Ile Phe Val Thr Ala Asn Tyr Ile Pro Phe Ala Phe Lys Cys Leu His

50 55 60
 Phe Ser Tyr Cys Thr Gly Tyr Leu Phe Leu Ser Ala Gln His Pro Val
 65 70 75 80
 Ser Pro Pro Phe Gly Ser Ser Pro Ser Gln Phe His Val Leu Asn Pro
 85 90 95
 Phe Leu Leu Leu Val Lys Ile Ile Phe Cys Phe Val
 100 105

<210> 2336

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2336

Met Gly Pro Leu Thr Arg Trp Ser Arg Ser Asn Glu Val Thr Arg Ala
 1 5 10 15
 Ser Pro Asn Pro Ile Cys Trp Cys Asn Tyr Lys Glu Ile Arg Thr Gln
 20 25 30
 Thr Cys Thr Glu Gly Arg Pro Ser Thr Ser Gln Gly Gly Arg Pro Pro
 35 40 45
 Gly Asn Gln Pro Cys Gln Gln Met Met Val Cys Pro Phe Gly Ala Lys
 50 55 60
 Pro Gln Glu Ala Ser Val Leu Ser Leu Thr Leu Gly Ser Leu Leu Ser
 65 70 75 80
 Arg Val Arg Trp Leu Gly Leu Ala Cys Trp Arg Leu Thr Gly Pro Trp
 85 90 95
 Gly Lys Ser Ser Trp Ser Lys Val Phe Trp Ala Ser Gln His Asn Pro
 100 105 110
 Gln Pro Thr Val Gln Ala Val Asp Arg Tyr Arg Ser Lys Ser Ser Gln
 115 120 125
 Asp Gln Pro Asn Ser Asp Gln Gln Asn Cys Leu Ala Gly Ser
 130 135 140

<210> 2337

<211> 123

<212> PRT

<213> Homo sapiens

<400> 2337

```

Met Ser Ala Cys Pro Ala Gly Thr Ala Gln Arg Pro Arg Pro Gly Arg
 1             5             10            15
Thr Leu Arg Val Thr Thr Leu Pro Thr Ala Pro Leu Ala Ile Leu Pro
      20             25            30
Asn His Ser Leu Pro Lys Ile Pro Pro Thr Val Thr Pro His Asp Asn
      35             40            45
Pro Gly Arg Leu Ser Ala Val Ala Pro Ala Pro Gln Pro Arg Ala Leu
      50             55            60
Ser Pro Pro Arg Phe Cys Pro Pro Pro Leu Ser Ser Leu Cys Thr Ser
      65             70            75            80
Pro Pro Trp Leu Pro Leu Ser Pro Glu Leu Thr Val Asp Ala Gly Phe
      85             90            95
Phe Gln Thr Pro Leu Gly Asn Thr Glu Trp Lys Arg Gly Ser Val Arg
      100            105            110
Lys Cys Leu Val Glu Cys Arg His Cys Gly Ile
      115            120

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<210> 2338

<211> 120

<212> PRT

<213> Homo sapiens

<400> 2338

```

Met Gly Leu Leu Ala Leu Pro Phe Phe Ala Ile Leu Val Met Asp Arg
 1             5             10            15
Gly Trp Pro Arg Gly Thr Trp Leu Pro Val Thr Ser Gly Arg Leu His
      20             25            30
Ala Gly Gln Gly Arg Val Ala Leu Pro Leu Ala Gly Gly Gly Met Arg
      35             40            45
Leu Pro Arg Gly Thr Gln Val Ser Leu His Leu Ala Pro Tyr Pro Val

```

50 55 60
 Ser Phe Ala Val Phe Met Cys Ser Asp Ala Leu Pro Leu Gly Ala Ser
 65 70 75 80
 Lys Leu Gln Cys Pro Leu Pro Pro Gly Arg Gly Asp Pro Gln Ala Pro
 85 90 95
 Ser Ala Gln Arg Cys Thr Cys Leu Val Ala Leu Leu Leu Pro Gly Thr
 100 105 110
 Val Asp Leu Ser Val Cys Leu Phe
 115 120

<210> 2339

<211> 273

<212> PRT

<213> Homo sapiens

<400> 2339

Met Glu Gly Glu Ile Trp Gly Leu Ala Thr His Pro Ser Lys Asp Leu
 1 5 10 15
 Phe Ile Ser Ala Ser Asn Asp Gly Thr Ala Arg Ile Trp Asp Leu Ala
 20 25 30
 Asp Lys Lys Leu Leu Asn Lys Val Ser Leu Gly His Ala Ala Arg Cys
 35 40 45
 Ala Ala Tyr Ser Pro Asp Gly Glu Met Val Ala Ile Gly Met Lys Asn
 50 55 60
 Gly Glu Phe Val Ile Leu Leu Val Asn Ser Leu Lys Val Trp Gly Lys
 65 70 75 80
 Lys Arg Asp Arg Lys Ser Ala Ile Gln Asp Ile Arg Ile Ser Pro Asp
 85 90 95
 Asn Arg Phe Leu Ala Val Gly Ser Ser Glu His Thr Val Asp Phe Tyr
 100 105 110
 Asp Leu Thr Gln Gly Thr Asn Leu Asn Arg Ile Gly Tyr Cys Lys Asp
 115 120 125
 Ile Pro Ser Phe Val Ile Gln Met Asp Phe Ser Ala Asp Gly Lys Tyr
 130 135 140
 Ile Gln Val Ser Thr Gly Ala Tyr Lys Arg Gln Val His Glu Val Pro

145 150 155 160
 Leu Gly Lys Gln Val Thr Glu Ala Val Val Ile Glu Lys Ile Thr Trp
 165 170 175
 Ala Ser Trp Thr Ser Val Leu Gly Asp Glu Val Ile Gly Ile Trp Pro
 180 185 190
 Arg Asn Ala Asp Lys Ala Asp Val Asn Cys Ala Cys Val Thr His Ala
 195 200 205
 Gly Leu Asn Ile Val Thr Gly Asp Asp Phe Gly Leu Val Lys Leu Phe
 210 215 220
 Asp Phe Pro Cys Thr Glu Lys Phe Ala Lys His Lys Arg Tyr Phe Gly
 225 230 235 240
 His Ser Ala His Val Thr Asn Ile Arg Phe Ser Tyr Asp Asp Lys Tyr
 245 250 255
 Val Val Ser Thr Gly Gly Asp Asp Cys Ser Val Phe Val Trp Arg Cys
 260 265 270
 Leu

<210> 2340

<211> 103

<212> PRT

<213> Homo sapiens

<400> 2340

Met Gln Gln Asn Glu Ala Ala Gln Gln Glu Val Pro Phe Gly Pro Gln
 1 5 10 15
 Thr Thr Ala Val Leu Trp Asp His Lys Gly Gly Val Ala His Ala Val
 20 25 30
 Asn His Gln Ala Asn Gly Ser Val His Leu Leu His Gln Asp Gly Val
 35 40 45
 Pro Leu Val Val Ile His Met Ala Leu Gly Gly Lys Val Ser Ile Glu
 50 55 60
 Thr Thr Gln Thr Val Val Phe Gln Leu Gly His Ser Thr Gly Gln Leu
 65 70 75 80
 Gln Arg Lys Ser Lys Gln Pro Ser Ala Lys Pro Arg Ser Pro Cys Lys

85 90 95
 Pro Ala Lys Arg Leu Pro Val
 100

<210> 2341

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2341

Met Gly Val Pro Arg Ser Phe Arg Gly Ser Pro Arg Val Pro Pro Pro
 1 5 10 15
 Gly Pro Pro Arg Trp Thr Ser Leu Arg Pro Leu Pro Ser Leu Asp His
 20 25 30
 Ile Ser Ala Pro Thr Val Pro Asp Ile Leu Ala Leu His Ala Thr Ser
 35 40 45
 Arg Pro Met Ile Met Pro Gln Phe Pro Ser Pro Leu Arg Gln Pro Ser
 50 55 60
 Pro Cys Arg Leu Pro Pro Ser Glu Arg Val Gln Leu Gln Leu Ser Pro
 65 70 75 80
 Gly Ser Leu Pro Ala Ser Gly Pro His Leu Thr Pro Ala Ser Arg Phe
 85 90 95
 Pro Leu Pro Ala Arg Leu Asn Pro Ala Ala Ser Ala Pro Cys Leu Val
 100 105 110
 Pro Ser Ala Trp Pro Leu Pro Pro Ala Ala Gly Ser Gly Arg Arg
 115 120 125

<210> 2342

<211> 289

<212> PRT

<213> Homo sapiens

<400> 2342

Met Gly Cys Ile Gly Ser Arg Thr Val Gly Asn Glu Val Ile Ala Val

1	5	10	15
Asp Trp Lys Gly Leu Lys Asp Val Asp Gln Ile Asn Met Asp Ser Thr			
20	25	30	
Ser Ser Leu His Gly Ser Ser Leu His Arg Pro Ser Thr Glu Gln Thr			
35	40	45	
Arg Thr Asp Phe Ser Trp Asp Gly Ile Asn Leu Ser Met Glu Asp Thr			
50	55	60	
Thr Ser Ile Leu Pro Lys Leu Lys Arg Asn Ser Asn Ala Tyr Gly Ile			
65	70	75	80
Gly Ala Leu Ala Lys Ser Ser Phe Ser Gly Ile Ser Arg Ser Met Lys			
85	90	95	
Asp His Val Thr Lys Pro Thr Ala Met Gly Gln Gly Arg Val Ala His			
100	105	110	
Met Ile Glu Trp Gln Gly Trp Gly Lys Thr Pro Ala Val Gln Pro Gln			
115	120	125	
His Ser His Glu Ser Val Arg Arg Asp Thr Asp Ala Tyr Ser Asp Leu			
130	135	140	
Ser Asp Gly Glu Lys Glu Ala Arg Phe Leu Ala Gly Val Met Glu Gln			
145	150	155	160
Phe Ala Ile Ser Glu Ala Thr Leu Met Ala Trp Ser Ser Met Asp Gly			
165	170	175	
Glu Asp Met Ser Val Asn Ser Thr Gln Glu Pro Leu Gly Cys Asn Tyr			
180	185	190	
Ser Asp Asn Tyr Gln Glu Leu Met Asp Ser Gln Asp Ala Leu Ala Gln			
195	200	205	
Ala Pro Met Asp Gly Leu Thr Leu Thr Cys Pro Arg Val Cys Thr Val			
210	215	220	
Trp Gly Arg Gln Met Pro Gly Lys Pro Ala Ile Ser Pro Ser Leu Pro			
225	230	235	240
Leu Arg Pro Gln Asp Pro Ile Leu Gly Leu His Leu Met Thr His Asn			
245	250	255	
Pro Ala Cys Met Lys Trp Asp Leu Pro Asn Gln Leu Gln Asp Thr Leu			
260	265	270	
Leu Trp Ser Leu His Leu Cys Trp Gly Glu Thr Leu Thr Gly Leu Arg			
275	280	285	

Gly

<210> 2343

<211> 118

<212> PRT

<213> Homo sapiens

<400> 2343

```

Met Cys Gln His Glu Gly Arg Leu Gln Phe Ile His Glu Arg Gln Glu
  1             5             10            15
Lys Glu Asn Ser Asn Leu Glu Ser Ser Val Gly His Gln Ala Leu Thr
          20             25             30
Phe Pro His Leu Ala His Tyr Pro Val Lys Ala Val Ala Ala His Leu
      35             40             45
Val Ala Leu His Gly Thr Leu Pro Lys Ala Ser Ser Ser Ile Leu Gly
      50             55             60
Leu Gln Arg Ile Gln Val Pro Ser Ile Gln Trp Gly Ser Ser Thr Ser
      65             70             75             80
Glu Val Pro Leu Pro Pro Ser Ser Ala Ser Cys Leu Ala Ile Pro Ser
          85             90             95
Ile Pro Phe Gly Asp Asp Tyr Leu Glu Asn Lys Glu Arg Tyr Gly Met
          100            105            110
Gly Phe Pro Ile Val Cys
          115

```

<210> 2344

<211> 1005

<212> PRT

<213> Homo sapiens

<400> 2344

```

Met Glu Lys Gln Arg Ala Leu Val Ala Ala Lys Asp Gly Asp Val Ala
  1             5             10            15

```

Thr Leu Glu Arg Leu Leu Glu Ala Gly Ala Leu Gly Pro Gly Ile Thr
 20 25 30
 Asp Ala Leu Gly Ala Gly Leu Val His His Ala Thr Arg Ala Gly His
 35 40 45
 Leu Asp Cys Val Lys Phe Leu Val Gln Arg Ala Gln Leu Pro Gly Asn
 50 55 60
 Gln Arg Ala His Asn Gly Ala Thr Pro Ala His Asp Ala Ala Ala Thr
 65 70 75 80
 Gly Ser Leu Ala Glu Leu Cys Trp Leu Val Arg Glu Gly Gly Cys Gly
 85 90 95
 Leu Gln Asp Gln Asp Ala Ser Gly Val Ser Pro Leu His Leu Ala Ala
 100 105 110
 Arg Phe Gly His Pro Val Leu Val Glu Trp Leu Leu His Glu Gly His
 115 120 125
 Ser Ala Thr Leu Glu Thr Arg Glu Gly Ala Arg Pro Leu His His Ala
 130 135 140
 Ala Val Ser Gly Asp Leu Thr Cys Leu Lys Leu Leu Thr Ala Ala His
 145 150 155 160
 Gly Ser Ser Val Asn Arg Arg Thr Arg Ser Gly Ala Ser Pro Leu Tyr
 165 170 175
 Leu Ala Cys Gln Glu Gly His Leu His Leu Ala Gln Phe Leu Val Lys
 180 185 190
 Asp Cys Gly Ala Asp Val His Leu Arg Ala Leu Asp Gly Met Ser Ala
 195 200 205
 Leu His Ala Ala Ala Ala Arg Gly His Tyr Ser Leu Val Val Trp Leu
 210 215 220
 Val Thr Phe Thr Asp Ile Gly Leu Thr Ala Arg Asp Asn Glu Gly Ala
 225 230 235 240
 Thr Ala Leu His Phe Ala Ala Arg Gly Gly His Thr Pro Ile Leu Asp
 245 250 255
 Arg Leu Leu Leu Met Gly Thr Pro Ile Leu Arg Asp Ser Trp Gly Gly
 260 265 270
 Thr Pro Leu His Asp Ala Ala Glu Asn Gly Gln Met Glu Cys Cys Gln
 275 280 285
 Thr Leu Val Ser His His Val Asp Pro Ser Leu Arg Asp Glu Asp Gly
 290 295 300

Tyr Thr Ala Ala Asp Leu Ala Glu Tyr His Gly His Arg Asp Cys Ala
 305 310 315 320
 Gln Tyr Leu Arg Glu Val Ala Gln Pro Val Pro Leu Leu Met Thr Pro
 325 330 335
 Pro Pro Pro Pro Phe Pro Pro Pro Pro Leu Leu Ala Thr Arg Arg Ser
 340 345 350
 Leu Glu Asp Gly Arg Arg Gly Gly Pro Gly Pro Gly Asn Pro Ser Pro
 355 360 365
 Met Ser Leu Ser Pro Ala Trp Pro Gly His Pro Asp Gln Pro Leu Pro
 370 375 380
 Arg Glu Gln Met Thr Ser Pro Ala Pro Pro Arg Ile Ile Thr Ser Ala
 385 390 395 400
 Thr Ala Asp Pro Glu Gly Thr Glu Thr Ala Leu Ala Gly Asp Thr Ser
 405 410 415
 Asp Gly Leu Ala Ala Leu Gln Leu Asp Gly Leu Pro Ser Gly Asp Ile
 420 425 430
 Asp Gly Leu Val Pro Thr Arg Asp Glu Arg Gly Gln Pro Ile Pro Glu
 435 440 445
 Trp Lys Arg Gln Val Met Val Arg Lys Leu Gln Ala Arg Leu Gly Ala
 450 455 460
 Glu Ser Ser Ala Glu Ala Gln Asp Asn Gly Gly Ser Ser Gly Pro Thr
 465 470 475 480
 Glu Gln Ala Ala Trp Arg Tyr Ser Gln Thr His Gln Ala Ile Leu Gly
 485 490 495
 Pro Phe Gly Glu Leu Leu Thr Glu Asp Asp Leu Val Tyr Leu Glu Lys
 500 505 510
 Gln Ile Ala Asp Leu Gln Leu Arg Arg Arg Cys Gln Glu Tyr Glu Ser
 515 520 525
 Glu Leu Gly Arg Leu Ala Ala Glu Leu Gln Ala Leu Leu Pro Glu Pro
 530 535 540
 Leu Val Ser Ile Thr Val Asn Ser His Phe Leu Pro Arg Ala Pro Gly
 545 550 555 560
 Leu Glu Val Glu Glu Ala Ser Ile Pro Ala Ala Glu Pro Ala Gly Ser
 565 570 575
 Ala Glu Ala Ser Glu Val Ala Pro Gly Val Gln Pro Leu Pro Phe Trp
 580 585 590

Cys Ser His Ile Ser Arg Leu Val Arg Ser Leu Ser Leu Leu Leu Lys

595	600	605
Gly Met His Gly Leu Val Gln Gly Asp Glu Lys Pro Ser Thr Arg Pro		
610	615	620
Leu Gln Asp Thr Cys Arg Glu Ala Ser Ala Ser Pro Pro Arg Ser Glu		
625	630	635
Ala Gln Arg Gln Ile Gln Glu Trp Gly Val Ser Val Arg Thr Leu Arg		
645	650	655
Gly Asn Phe Glu Ser Ala Ser Gly Pro Leu Cys Gly Phe Asn Pro Gly		
660	665	670
Pro Cys Glu Pro Gly Ala Gln His Arg Gln Cys Leu Ser Gly Cys Trp		
675	680	685
Pro Ala Leu Pro Lys Pro Arg Ser Gly Leu Ala Ser Gly Glu Pro Arg		
690	695	700
Pro Gly Asp Thr Glu Glu Ala Ser Asp Ser Gly Ile Ser Cys Glu Glu		
705	710	715
Val Pro Pro Glu Ala Gly Ala Ala Ala Gly Pro Asp Leu Ala Ser Leu		
725	730	735
Arg Lys Glu Arg Ile Ile Met Leu Phe Leu Ser His Trp Arg Arg Ser		
740	745	750
Ala Tyr Thr Pro Ala Leu Lys Thr Ala Ala Cys Arg Thr Leu Gly Ala		
755	760	765
Arg His Ala Gly Leu Arg Gly Gln Glu Ala Ala Arg Ser Pro Gly Pro		
770	775	780
Pro Ser Pro Pro Ser Glu Gly Pro Arg Leu Gly His Leu Trp Gln Gln		
785	790	795
Arg Ser Thr Ile Thr His Leu Leu Gly Asn Trp Lys Ala Ile Met Ala		
805	810	815
His Val Pro Ala Arg Gln Leu Arg Arg Leu Ser Arg Gln Pro Arg Gly		
820	825	830
Ala Leu Ser Pro Glu Gln Phe Leu Pro His Val Asp Gly Ala Pro Val		
835	840	845
Pro Tyr Ser Ser Leu Ser Leu Asp Leu Phe Met Leu Gly Tyr Phe Gln		
850	855	860
Leu Leu Glu Cys Asp Leu Pro Ala Glu Glu Arg Lys Leu Arg His Leu		

865 870 875 880
 Leu Cys Phe Glu Val Phe Glu His Leu Gly Thr His Gly Trp Glu Ala
 885 890 895
 Val Arg Ala Phe His Lys Ala Val Thr Asp Glu Val Ala Ala Gly Arg
 900 905 910
 Arg Ala Trp Thr Asp Gly Phe Glu Asp Ile Lys Ala Arg Phe Phe Gly
 915 920 925
 Ser Ser Gln Arg Pro Ala Trp Asp Thr Glu Pro Gly Arg Lys Ser Gly
 930 935 940
 Leu Thr Leu Leu Gly Pro Leu Pro His Ala Thr Val Pro Cys Ser Gly
 945 950 955 960
 Pro Glu Pro Thr Ala Gln Arg Leu Gly Ser Arg Ser Gln Gln Gly Ser
 965 970 975
 Phe Asn Gly Glu Asp Ile Cys Gly Tyr Ile Asn Arg Ser Phe Ala Phe
 980 985 990
 Trp Lys Glu Lys Glu Ala Glu Met Phe Asn Phe Gly Glu
 995 1000 1005

<210> 2345

<211> 145

<212> PRT

<213> Homo sapiens

<400> 2345

Met Gly Pro Trp Pro Arg Asp Trp Leu Gly Lys Gly Trp Arg Leu Gly
 1 5 10 15
 Ser Cys Glu Ala Arg Ala Gly Ala Lys Glu Val Ser Val Ile Arg His
 20 25 30
 Gly Ala Pro Asn Pro Ala Gln Ser His Leu His Val Gln Ala Arg Ala
 35 40 45
 Gln Val His Ser Glu Asp Gly His Ser Leu Pro Pro Val Val Asp Gly
 50 55 60
 Glu Asp Glu Val Leu Ser Leu Leu Val Phe Val Gln Asp Ser Gln Glu
 65 70 75 80
 Cys Cys Arg Gln Ala Val Gln Gly Arg Gln Gly Arg Gly Val Thr Trp

85 90 95
 Gly Leu Gly Leu Pro Ser Tyr His Leu Arg Thr Leu Leu Ser Pro Val
 100 105 110
 Cys Val Pro Ala Arg Asp Gln Arg Ala Pro Arg Lys Cys Cys Glu Ala
 115 120 125
 Val Leu Ala Cys Pro Leu Val Glu Thr Leu Val Thr Thr Leu Leu Thr
 130 135 140
 Arg
 145

<210> 2346

<211> 173

<212> PRT

<213> Homo sapiens

<400> 2346

Met Met Cys Met Met Thr Gly Ser Asp Val Arg Asp Asp Arg Leu Arg
 1 5 10 15
 Arg Cys Val Ala Thr Gly Ser Asp His Val Cys Asp Asp Arg Leu Arg
 20 25 30
 Cys Ala Leu Met Thr Gly Ser Asp Val Cys Asp Asp Trp Leu Arg Cys
 35 40 45
 Ser Leu Met Thr Ser Ser Asp Val Cys Asp Asp Pro Leu Ser Ile Gln
 50 55 60
 Cys Ala Ile Ala Leu Ala Arg Ser Arg Ser Arg Leu Pro Thr Arg Ser
 65 70 75 80
 Gln Leu Pro Ala Val Pro Ala Ser Ala Ala Arg Trp Arg Gln Gly Pro
 85 90 95
 His Glu Arg Arg Ala Phe Pro Cys Gly Cys Ser Leu Ala Gly Ser Pro
 100 105 110
 Leu Arg Gly Leu Leu Arg Pro Ala Ser Pro Ser Gln Cys Ile Val Thr
 115 120 125
 Thr Thr Leu Leu Ser Ser Asn Lys Gln Val Arg Cys Arg Trp Lys Cys
 130 135 140
 Gly Val Gly Val Trp Val Gly Glu Val Pro Gln Ala Ser Leu Ser Pro

145 150 155 160
 Cys Ala Ala Ala Gly Gly Tyr Ala Gly Gly Thr Glu Leu
 165 170

<210> 2347

<211> 116

<212> PRT

<213> Homo sapiens

<400> 2347

Met Gly Phe His His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser
 1 5 10 15
 Gly Asp Leu Pro Leu Leu Ala Ser Gln Ser Ala Gly Ile Thr Val Met
 20 25 30
 Ser His Arg Thr Trp Pro Gln Thr Phe Phe Phe Leu Ser Lys Glu Ile
 35 40 45
 Val Ser Trp Ile Thr Ser His Lys Ala Ser Gln Tyr Val Lys Gln Ile
 50 55 60
 Ile Val Leu Glu Val Thr Thr Trp Asn Ser Val His Gly Asp Ser Ser
 65 70 75 80
 Pro Cys Thr Pro His Thr Glu Thr Leu Gln Leu Met Leu Pro Thr Ser
 85 90 95
 Val Ser Lys Glu Thr Leu Asp Lys Ser Ser Pro Phe Ile His Arg Trp
 100 105 110
 Arg His Tyr Cys
 115

<210> 2348

<211> 122

<212> PRT

<213> Homo sapiens

<400> 2348

Met Thr Cys Ser Lys Thr Lys Thr Asn Pro Thr Phe Lys Cys Lys Thr

1	5	10	15
Asp Phe Lys Ala Ile Phe Phe Phe Leu Phe Phe Ile Glu Thr Glu Ser			
20	25	30	
Arg Ser Val Ala Gln Ala Gly Val Gln Trp Cys Asp Leu Ser Ser Leu			
35	40	45	
Gln Pro Pro Pro Pro Gly Phe Lys Arg Phe Ser Cys Leu Ser Leu Pro			
50	55	60	
Ser Ser Trp Asp Tyr Arg Cys Pro Pro Pro Arg Leu Val Thr Phe Cys			
65	70	75	80
Ile Phe Ser Arg Asp Arg Val Ser Ser Cys Trp Pro Gly Gly Leu Lys			
85	90	95	
Leu Leu Thr Ser Gly Asp Leu Pro Ala Ser Ala Ser Gln Ser Ala Gly			
100	105	110	
Val Thr Gly Met Ser His His Thr Trp Pro			
115	120		

<210> 2349

<211> 1163

<212> PRT

<213> Homo sapiens

<400> 2349

Met Glu Arg Gly Ala Arg Glu Met Ala Ala Pro Gly Asp Cys Pro Ala			
1	5	10	15
Gly Lys Ala Ala Gly Thr Ser Arg Pro Thr Arg Ser Leu Ser Thr Ala			
20	25	30	
Gln Leu Val Gln Pro Ser Gly Gly Leu Gln Ala Ser Val Ile Ser Asn			
35	40	45	
Ile Val Leu Met Lys Gly Gln Ala Lys Gly Leu Gly Phe Ser Ile Val			
50	55	60	
Gly Gly Lys Asp Ser Ile Tyr Gly Pro Ile Gly Ile Tyr Val Lys Thr			
65	70	75	80
Ile Phe Ala Gly Gly Ala Ala Ala Ala Asp Gly Arg Leu Gln Glu Gly			
85	90	95	
Asp Glu Ile Leu Glu Leu Asn Gly Glu Ser Met Ala Gly Leu Thr His			

100	105	110
Gln Asp Ala Leu Gln Lys Phe	Lys Gln Ala Lys Lys Gly	Leu Leu Thr
115	120	125
Leu Thr Val Arg Thr Arg Leu	Thr Ala Pro Pro Ser	Leu Cys Ser His
130	135	140
Leu Ser Pro Pro Leu Cys Arg	Ser Leu Ser Ser Ser Thr	Cys Ile Thr
145	150	155
Lys Asp Ser Ser Ser Phe Ala	Leu Glu Ser Pro Ser Ala	Pro Ile Ser
165	170	175
Thr Ala Lys Pro Asn Tyr Arg	Ile Met Val Glu Val Ser	Leu Gln Lys
180	185	190
Glu Ala Gly Val Gly Leu Gly	Ile Gly Leu Cys Ser Val	Pro Tyr Phe
195	200	205
Gln Cys Ile Ser Gly Ile Phe	Val His Thr Leu Ser Pro	Gly Ser Val
210	215	220
Ala His Leu Asp Gly Arg Leu	Arg Cys Gly Asp Glu Ile	Val Glu Ile
225	230	235
Ser Asp Ser Pro Val His Cys	Leu Thr Leu Asn Glu Val	Tyr Thr Ile
245	250	255
Leu Ser His Cys Asp Pro Gly	Pro Val Pro Ile Ile Val	Ser Arg His
260	265	270
Pro Asp Pro Gln Val Ser Glu	Gln Gln Leu Lys Glu Ala	Val Ala Gln
275	280	285
Ala Val Glu Asn Thr Lys Phe	Gly Lys Glu Arg His Gln	Trp Ser Leu
290	295	300
Glu Gly Val Lys Arg Leu Glu	Ser Ser Trp His Gly Arg	Pro Thr Leu
305	310	315
Glu Lys Glu Arg Glu Lys Asn	Ser Ala Pro Pro His Arg	Arg Ala Gln
325	330	335
Lys Val Met Ile Arg Ser Ser	Ser Asp Ser Ser Tyr Met	Ser Gly Ser
340	345	350
Pro Gly Gly Ser Pro Gly Ser	Gly Ser Ala Glu Lys Pro	Ser Ser Asp
355	360	365
Val Asp Ile Ser Thr His Ser	Pro Ser Leu Pro Leu Ala	Arg Glu Pro
370	375	380
Val Val Leu Ser Ile Ala Ser	Ser Ser Arg Leu Pro Gln	Glu Ser Pro Pro

385	390	395	400
Leu Pro Glu Ser Arg Asp Ser His Pro Pro Leu Arg Leu Lys Lys Ser			
	405	410	415
Phe Glu Ile Leu Val Arg Lys Pro Met Ser Ser Lys Pro Lys Pro Pro			
	420	425	430
Pro Arg Lys Tyr Phe Lys Ser Asp Ser Asp Pro Gln Lys Ser Leu Glu			
	435	440	445
Glu Arg Glu Asn Ser Ser Cys Ser Ser Gly His Thr Pro Pro Thr Cys			
	450	455	460
Gly Gln Glu Ala Arg Glu Leu Leu Pro Leu Leu Leu Pro Gln Glu Asp			
465	470	475	480
Thr Ala Gly Arg Ser Pro Ser Ala Ser Ala Gly Cys Pro Gly Pro Gly			
	485	490	495
Ile Gly Pro Gln Thr Lys Ser Ser Thr Glu Gly Glu Pro Gly Trp Arg			
	500	505	510
Arg Ala Ser Pro Val Thr Gln Thr Ser Pro Ile Lys His Pro Leu Leu			
	515	520	525
Lys Arg Gln Ala Arg Met Asp Tyr Ser Phe Asp Thr Thr Ala Glu Asp			
	530	535	540
Pro Trp Val Arg Ile Ser Asp Cys Ile Lys Asn Leu Phe Ser Pro Ile			
545	550	555	560
Met Ser Glu Asn His Gly His Met Pro Leu Gln Pro Asn Ala Ser Leu			
	565	570	575
Asn Glu Glu Glu Gly Thr Gln Gly His Pro Asp Gly Thr Pro Pro Lys			
	580	585	590
Leu Asp Thr Ala Asn Gly Thr Pro Lys Val Tyr Lys Ser Ala Asp Ser			
	595	600	605
Ser Thr Val Lys Lys Gly Pro Pro Val Ala Pro Lys Pro Ala Trp Phe			
	610	615	620
Arg Gln Ser Leu Lys Gly Leu Arg Asn Arg Ala Ser Asp Pro Arg Gly			
625	630	635	640
Leu Pro Asp Pro Ala Leu Ser Thr Gln Pro Ala Pro Ala Ser Arg Glu			
	645	650	655
His Leu Gly Ser His Ile Arg Ala Ser Ser Ser Ser Ser Ser Ile Arg			
	660	665	670
Gln Arg Ile Ser Ser Phe Glu Thr Phe Gly Ser Ser Gln Leu Pro Asp			

675	680	685
Lys Gly Ala Gln Arg Leu Ser	Leu Gln Pro Ser Ser	Gly Glu Ala Ala
690	695	700
Lys Pro Leu Gly Lys His Glu Glu Gly Arg Phe Ser	Gly Leu Leu Gly	
705	710	715
Arg Gly Ala Ala Pro Thr Leu Val Pro Gln Gln Pro Glu Gln Val Leu		
725	730	735
Ser Ser Gly Ser Pro Ala Ala Ser Glu Ala Arg Asp Pro Gly Val Ser		
740	745	750
Glu Ser Pro Pro Pro Gly Arg Gln Pro Asn Gln Lys Thr Leu Pro Pro		
755	760	765
Gly Pro Asp Pro Leu Leu Arg Leu Leu Ser Thr Gln Ala Glu Glu Ser		
770	775	780
Gln Gly Pro Val Leu Lys Met Pro Ser Gln Arg Ala Arg Ser Phe Pro		
785	790	795
Leu Thr Arg Ser Gln Ser Cys Glu Thr Lys Leu Leu Asp Glu Lys Thr		
805	810	815
Ser Lys Leu Tyr Ser Ile Ser Ser Gln Val Ser Ser Ala Val Met Lys		
820	825	830
Ser Leu Leu Cys Leu Pro Ser Ser Ile Ser Cys Ala Gln Thr Pro Cys		
835	840	845
Ile Pro Lys Glu Gly Ala Ser Pro Thr Ser Ser Ser Asn Glu Asp Ser		
850	855	860
Ala Ala Asn Gly Ser Ala Glu Thr Ser Ala Leu Asp Thr Gly Phe Ser		
865	870	875
Leu Asn Leu Ser Glu Leu Arg Glu Tyr Thr Glu Gly Leu Thr Glu Ala		
885	890	895
Lys Glu Asp Asp Asp Gly Asp His Ser Ser Leu Gln Ser Gly Gln Ser		
900	905	910
Val Ile Ser Leu Leu Ser Ser Glu Glu Leu Lys Lys Leu Ile Glu Glu		
915	920	925
Val Lys Val Leu Asp Glu Ala Thr Leu Lys Gln Leu Asp Gly Ile His		
930	935	940
Val Thr Ile Leu His Lys Glu Glu Gly Ala Gly Leu Gly Phe Ser Leu		
945	950	955
Ala Gly Gly Ala Asp Leu Glu Asn Lys Val Ile Thr Val His Arg Val		

	965							970							975			
Phe	Pro	Asn	Gly	Leu	Ala	Ser	Gln	Glu	Gly	Thr	Ile	Gln	Lys	Gly	Asn			
			980						985					990				
Glu	Val	Leu	Ser	Ile	Asn	Gly	Lys	Ser	Leu	Lys	Gly	Thr	Thr	His	His			
			995				1000					1005						
Asp	Ala	Leu	Ala	Ile	Leu	Arg	Gln	Ala	Arg	Glu	Pro	Arg	Gln	Ala	Val			
			1010				1015					1020						
Ile	Val	Thr	Arg	Lys	Leu	Thr	Pro	Glu	Ala	Met	Pro	Asp	Leu	Asn	Ser			
1025					1030					1035					1040			
Ser	Thr	Asp	Ser	Ala	Ala	Ser	Ala	Ser	Ala	Ala	Ser	Asp	Val	Ser	Val			
				1045					1050					1055				
Glu	Ser	Thr	Glu	Ala	Thr	Val	Cys	Thr	Val	Thr	Leu	Glu	Lys	Met	Ser			
			1060						1065				1070					
Ala	Gly	Leu	Gly	Phe	Ser	Leu	Glu	Gly	Gly	Lys	Gly	Ser	Leu	His	Gly			
			1075					1080					1085					
Asp	Lys	Pro	Leu	Thr	Ile	Asn	Arg	Ile	Phe	Lys	Gly	Ala	Ala	Ser	Glu			
			1090				1095					1100						
Gln	Ser	Glu	Thr	Val	Gln	Pro	Gly	Asp	Glu	Ile	Leu	Gln	Leu	Gly	Gly			
1105					1110					1115					1120			
Thr	Ala	Met	Gln	Gly	Leu	Thr	Arg	Phe	Glu	Ala	Trp	Asn	Ile	Ile	Lys			
				1125					1130					1135				
Ala	Leu	Pro	Asp	Gly	Pro	Val	Thr	Ile	Val	Ile	Arg	Arg	Lys	Ser	Leu			
			1140						1145					1150				
Gln	Ser	Lys	Glu	Thr	Thr	Ala	Ala	Gly	Asp	Ser								
			1155				1160											

<210> 2350

<211> 306

<212> PRT

<213> Homo sapiens

<400> 2350

Met Ser Asn Lys Arg Ser Asn Ser Phe Arg Gln Ala Ile Leu Gln Gly
1 5 10 15
Asn Arg Arg Leu Ser Ser Lys Ala Leu Leu Glu Glu Lys Gly Leu Ser

20	25	30
Leu Ser Gln Arg Leu Ile Arg His Val Ala Tyr Glu Thr Leu Pro Arg		
35	40	45
Glu Ile Asp Arg Lys Trp Tyr Tyr Asp Ser Tyr Thr Cys Cys Pro Pro		
50	55	60
Pro Trp Phe Met Ile Thr Val Thr Leu Leu Glu Val Ala Phe Phe Leu		
65	70	75
Tyr Asn Gly Val Ser Leu Gly Gln Phe Val Leu Gln Val Thr His Pro		
85	90	95
Arg Tyr Leu Lys Asn Ser Leu Val Tyr His Pro Gln Leu Arg Ala Gln		
100	105	110
Val Trp Arg Tyr Leu Thr Tyr Ile Phe Met His Ala Gly Ile Glu His		
115	120	125
Leu Gly Leu Asn Val Val Leu Gln Leu Leu Val Gly Val Pro Leu Glu		
130	135	140
Met Val His Gly Ala Thr Arg Ile Gly Leu Val Tyr Val Ala Gly Val		
145	150	155
Val Ala Gly Ser Leu Ala Val Ser Val Ala Asp Met Thr Ala Pro Val		
165	170	175
Val Gly Ser Ser Gly Gly Val Tyr Ala Leu Val Ser Ala His Leu Ala		
180	185	190
Asn Ile Val Met Asn Trp Ser Gly Met Lys Cys Gln Phe Lys Leu Leu		
195	200	205
Arg Met Ala Val Ala Leu Ile Cys Met Ser Met Glu Phe Gly Arg Ala		
210	215	220
Val Trp Leu Arg Phe His Pro Ser Ala Tyr Pro Pro Cys Pro His Pro		
225	230	235
Ser Phe Val Ala His Leu Gly Gly Val Ala Val Gly Ile Thr Leu Gly		
245	250	255
Val Val Val Leu Arg Asn Tyr Glu Gln Arg Leu Gln Asp Gln Ser Leu		
260	265	270
Trp Trp Ile Phe Val Ala Met Tyr Thr Val Phe Val Leu Phe Ala Val		
275	280	285
Phe Trp Asn Ile Phe Ala Tyr Thr Leu Leu Asp Leu Lys Leu Pro Pro		
290	295	300
Pro Pro		

305

<210> 2351

<211> 178

<212> PRT

<213> Homo sapiens

<400> 2351

Met Val Gly Phe Pro Asn Ala Gly Lys Ser Ser Leu Leu Arg Ala Ile
 1 5 10 15
 Ser Asn Ala Arg Pro Ala Val Ala Ser Tyr Pro Phe Thr Thr Leu Lys
 20 25 30
 Pro His Val Gly Ile Val His Tyr Glu Gly His Leu Gln Ile Ala Val
 35 40 45
 Ala Asp Ile Pro Gly Ile Ile Arg Gly Ala His Gln Asn Arg Gly Leu
 50 55 60
 Gly Ser Ala Phe Leu Arg His Ile Glu Arg Cys Arg Phe Leu Leu Phe
 65 70 75 80
 Val Val Asp Leu Ser Gln Pro Glu Pro Trp Thr Gln Val Asp Asp Leu
 85 90 95
 Lys Tyr Glu Leu Glu Met Tyr Glu Lys Gly Leu Ser Ala Arg Pro His
 100 105 110
 Ala Ile Val Ala Asn Lys Ile Asp Leu Pro Glu Ala Gln Ala Asn Leu
 115 120 125
 Ser Gln Leu Arg Asp His Leu Gly Gln Glu Val Ile Val Leu Ser Ala
 130 135 140
 Leu Thr Gly Glu Asn Leu Glu Gln Leu Leu Leu His Leu Lys Val Leu
 145 150 155 160
 Tyr Asp Ala Tyr Ala Glu Ala Glu Leu Gly Gln Gly Arg Gln Pro Leu
 165 170 175
 Arg Trp

<210> 2352

<211> 143

<212> PRT

<213> Homo sapiens

<400> 2352

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Met Tyr Gly Ala Thr Gln Ser Gln Ser Asp Met Cys Asp Gln Asp Gln
 1             5             10             15
Cys Ile Gln Ser Thr Lys Phe Val Leu Gln Ala Ala Ala Thr Pro Leu
          20             25             30
Leu Gln Ser Glu Pro Ser Leu Thr Ser Asp Glu Leu His Leu Pro Gly
          35             40             45
Lys Pro Gly Leu Gly Thr Pro Cys Ala Ser Leu Thr Leu Gly Pro Pro
          50             55             60
Thr Pro Pro Ala Ser Met Pro Asn Leu Ala Glu Ala Thr Leu Ala Asp
          65             70             75             80
Val Met Pro Arg Lys Asp Glu His Met Gly His Gln Phe Leu Thr Pro
          85             90             95
Asp Glu Ala Pro Ser Pro Pro Arg Leu Leu Ala Ala Gly Ser Pro Leu
          100            105            110
Ala His Ser Arg Thr Met His Val Leu Gly Leu Ala Ser Gln Asp Ser
          115            120            125
Leu His Glu Asp Ser Val Arg Gly Leu Val Lys Leu Ser Ser Val
          130            135            140

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<210> 2353

<211> 171

<212> PRT

<213> Homo sapiens

<400> 2353

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Met Ala Phe Gln Ser Leu Asp Ile Phe Ile Ile Asn Thr Asn Ile Pro
 1             5             10             15
Leu His Lys Gly Thr Ser Ser Asn Leu Arg Leu Glu Gly Pro Pro Ala
          20             25             30
Tyr Val Phe Leu Leu Ile Leu Ser Tyr Leu Pro Ser Ser Pro His Asn

```

35	40	45
Ser His Ser Val Thr Lys Ser Arg Arg Phe Tyr Leu Leu Asn Leu Ser		
50	55	60
Tyr Pro Ser Leu Leu Ser His Ser Pro Asp Thr Thr Ile Asn Gln Ala		
65	70	75
80		
Thr Ile Thr Ser Ser Cys Leu Thr Ala Asn Ala Ser Arg Leu Ala Ser		
85	90	95
Ala Phe Pro Trp Pro Cys Asp Asn Leu His Ser Ser Gln Gly Pro Lys		
100	105	110
Gln Ser Leu Gln Lys Val His Pro Asn Arg Ser Leu Asn Phe Gln Trp		
115	120	125
Leu Pro Leu Leu Cys Gly Leu Thr Met Ile Lys Ala Arg Pro Gly Val		
130	135	140
Gly Ala His Ala Cys Asn Pro Ser Thr Leu Gly Gly Arg Gly Gly Arg		
145	150	155
160		
Ile Thr Thr Leu Gly Asp Pro Asp His Ser Pro		
165	170	

<210> 2354

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2354

Met Val Glu Leu Val Ser Glu Ala Trp Tyr Ser Ala Ala Glu Ala Arg		
1	5	10
15		
Gln Gly Cys His Gly Asp Phe His Ser Ile Trp Met Ala Asn Cys Leu		
20	25	30
His Val Gly Lys Pro His Gly Thr Asp Ser Phe Leu Lys Gly Ser Pro		
35	40	45
Ser Ile Ser Glu Phe Gly Asp Phe Ile Ser Tyr Ser Trp Asn Gln Asn		
50	55	60
Glu Cys Gly Val Ile Ile Tyr Ile Phe Phe Gly Thr Glu Ser Arg Ser		
65	70	75
80		
Val Ala Gln Ala Gly Val Gln Trp Cys Asp Leu Val Ser Leu Gln Pro		

85 90 95
 Leu Pro Pro Gly Phe Lys
 100

<210> 2355

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2355

Met Pro Ser Cys Asp Pro Gly Pro Gly Pro Ala Cys Leu Pro Thr Lys
 1 5 10 15
 Thr Phe Arg Ser Tyr Leu Pro Arg Cys His Arg Thr Tyr Ser Cys Val
 20 25 30
 His Cys Arg Ala His Leu Ala Lys His Asp Glu Leu Ile Ser Lys Ser
 35 40 45
 Phe Gln Gly Ser His Gly Arg Ala Tyr Leu Phe Asn Ser Val Val Asn
 50 55 60
 Val Gly Cys Gly Pro Ala Glu Gln Arg Leu Leu Leu Thr Gly Leu His
 65 70 75 80
 Ser Val Ala Asp Ile Phe Cys Glu Ser Cys Lys Thr Thr Leu Gly Trp
 85 90 95
 Lys Tyr Glu Gln Ala Phe Glu Thr Ser Gln Lys Tyr Lys Glu Gly Lys
 100 105 110
 Tyr Ile Ile Glu Met Ser His Met Val Lys Asp Asn Gly Trp Asp
 115 120 125

<210> 2356

<211> 143

<212> PRT

<213> Homo sapiens

<400> 2356

Met Ala Asn Asp Leu Cys Met Trp Gly Ala Asp Ile Gln Ser Val Pro

1	5	10	15
Gly Pro Leu Trp His His Phe Cys Gly Arg Ala Gly Ser Pro Cys Thr			
20	25	30	
Gly Leu Cys Cys Phe Cys Arg Pro Gly Phe Gln Gly Ser Cys Leu Cys			
35	40	45	
Leu Ala Leu Leu Phe Ser Ala Phe Pro Arg Tyr Phe Ser Asp Trp Ser			
50	55	60	
Leu Pro Ser Leu Pro Leu Pro Ser Gln Asp Cys Gly Pro Leu Gln Val			
65	70	75	80
Leu Gln Met Asp Pro Ser Trp Leu Met Lys Val Phe Pro Ser His Leu			
85	90	95	
Glu Pro Thr Pro Ser Gly Ser Lys Ala Ala Gly Pro Gln Leu Pro Thr			
100	105	110	
Leu Val Gln Leu Cys Ser Cys Trp Val Glu Trp Gly Arg Gly Arg Trp			
115	120	125	
Ser Ser Cys Leu Tyr Ala Ala Gly Phe Gly Leu Leu Val Phe Tyr			
130	135	140	

<210> 2357

<211> 115

<212> PRT

<213> Homo sapiens

<400> 2357

Met Gly Phe Tyr His Val Gly Gln Ser Gly Leu Glu Leu Leu Ser Ser			
1	5	10	15
Arg Asp Leu Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Pro Gly Val			
20	25	30	
Ser His Cys Ala Arg Pro Arg Leu Val Ile Phe Lys Met Gly Leu Lys			
35	40	45	
Leu Arg Ala Gly Leu Gln Glu Glu Asn Glu Leu Arg Ser Asp Phe Arg			
50	55	60	
Cys Trp Asn Pro Ser Ala Ser Leu Pro Ala Thr Leu Gln Phe Leu Ala			
65	70	75	80
Ala Ser Ser Ser Phe Ala Val Cys Pro Trp Phe Ala Val Phe Val Ile			

85 90 95
 Arg Asn Leu Cys Tyr Glu Ile Ser Gly Ile His Trp Leu Leu Leu Ser
 100 105 110
 Asn Phe Val
 115

<210> 2358

<211> 179

<212> PRT

<213> Homo sapiens

<400> 2358

Met Arg Lys Glu Ala Val Pro Ser Arg Gly Leu Ser Cys Val Arg Gly
 1 5 10 15
 Gly Ala Ala Ala Val Ala Gly Val Ser Arg His Pro Thr Gln Gly Ser
 20 25 30
 Phe Gln Ile Arg His Leu Phe Thr Arg Pro Pro Tyr Ser Phe Phe Ser
 35 40 45
 Pro Arg Leu Leu His Val Gly Val Gln Cys Leu Ala Leu Thr Ser Pro
 50 55 60
 His Ser Ser Trp Trp Gly Phe Glu Leu Gly Val Pro Ser Ala Pro His
 65 70 75 80
 Ser Pro Leu Thr Ala Pro Thr Pro Arg Lys Pro Pro Leu Pro Pro Leu
 85 90 95
 Phe Val Ser Ser Phe His Ser Leu Gly Gly Gln Ala Ala Ala Pro Val
 100 105 110
 Ala Ala Pro Ala Leu Phe His Pro Pro Leu Leu Ser Gln Pro Glu Leu
 115 120 125
 Tyr Arg Glu Val Trp Ala Pro His Leu Gly Pro Cys His Ala Cys Ser
 130 135 140
 Gln Lys His Pro Arg Gly Ser Pro Asp Ser Leu Leu Pro Trp Ala Leu
 145 150 155 160
 Leu Arg Ser Pro Phe Ile Val Ala Phe Gly Val Cys Leu Met Pro Ile
 165 170 175
 Pro Cys Ser

<210> 2359

<211> 920

<212> PRT

<213> Homo sapiens

<400> 2359

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Met Gly Arg Gly Ala Gly Arg Glu Tyr Ser Pro Ala Ala Thr Thr Ala
  1             5             10             15
Glu Asn Gly Gly Gly Lys Lys Lys Gln Lys Glu Lys Glu Leu Asp Glu
          20             25             30
Leu Lys Lys Glu Val Val Ile Val Thr Gly Cys Phe Ser Tyr Tyr Gln
          35             40             45
Glu Ala Lys Ser Ser Lys Ile Met Asp Ser Phe Lys Asn Met Val Pro
          50             55             60
Gln Gln Ala Leu Val Ile Arg Glu Gly Glu Lys Met Gln Ile Asn Ala
          65             70             75             80
Glu Glu Val Val Val Gly Asp Leu Val Glu Val Lys Gly Gly Asp Arg
          85             90             95
Val Pro Ala Asp Leu Arg Ile Ile Ser Ser His Gly Cys Lys Val Asp
          100            105            110
Asn Ser Ser Leu Thr Gly Glu Pro Glu Pro Gln Thr Arg Ser Pro Glu
          115            120            125
Phe Thr His Glu Asn Pro Leu Glu Thr Arg Asn Ile Cys Phe Phe Ser
          130            135            140
Thr Asn Cys Val Glu Gly Thr Ala Arg Gly Ile Val Ile Ala Thr Gly
          145            150            155            160
Asp Arg Thr Val Met Gly Arg Ile Ala Thr Leu Ala Ser Gly Leu Glu
          165            170            175
Val Gly Arg Thr Pro Ile Ala Met Glu Ile Glu His Phe Ile Gln Leu
          180            185            190
Ile Thr Gly Val Ala Val Phe Leu Gly Val Ser Phe Phe Val Leu Ser
          195            200            205
Leu Ile Leu Gly Tyr Ser Trp Leu Glu Ala Val Ile Phe Leu Ile Gly

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210	215	220	
Ile Ile Val Ala Asn Val Pro Glu Gly Leu Leu Ala Thr Val Thr Val			
225	230	235	240
Cys Leu Thr Leu Thr Ala Lys Arg Met Ala Arg Lys Asn Cys Leu Val			
	245	250	255
Lys Asn Leu Glu Ala Val Glu Thr Leu Gly Ser Thr Ser Thr Ile Cys			
	260	265	270
Ser Asp Lys Thr Gly Thr Leu Thr Gln Asn Arg Met Thr Val Ala His			
	275	280	285
Met Trp Phe Asp Asn Gln Ile His Glu Ala Asp Thr Thr Glu Asp Gln			
	290	295	300
Ser Gly Ala Thr Phe Asp Lys Arg Ser Pro Thr Trp Thr Ala Leu Ser			
305	310	315	320
Arg Ile Ala Gly Leu Cys Asn Arg Ala Val Phe Lys Ala Gly Gln Glu			
	325	330	335
Asn Ile Ser Val Ser Lys Arg Asp Thr Ala Gly Asp Ala Ser Glu Ser			
	340	345	350
Ala Leu Leu Glu Cys Ile Glu Leu Ser Cys Gly Ser Val Arg Lys Met			
	355	360	365
Arg Asp Arg Asn Pro Lys Val Ala Glu Ile Pro Phe Asn Ser Thr Asn			
	370	375	380
Lys Tyr Gln Leu Ser Ile His Glu Arg Glu Asp Ser Pro Gln Ser His			
385	390	395	400
Val Leu Val Met Lys Gly Ala Pro Glu Arg Ile Leu Asp Arg Cys Ser			
	405	410	415
Thr Ile Leu Val Gln Gly Lys Glu Ile Pro Leu Asp Lys Glu Met Gln			
	420	425	430
Asp Ala Phe Gln Asn Ala Tyr Met Glu Leu Gly Gly Leu Gly Glu Arg			
	435	440	445
Val Leu Gly Phe Cys Gln Leu Asn Leu Pro Ser Gly Lys Phe Pro Arg			
	450	455	460
Gly Phe Lys Phe Asp Thr Asp Glu Leu Asn Phe Pro Thr Glu Lys Leu			
465	470	475	480
Cys Phe Val Gly Leu Met Ser Met Ile Asp Pro Pro Arg Ala Ala Val			
	485	490	495
Pro Asp Ala Val Gly Lys Cys Arg Ser Ala Gly Ile Lys Val Ile Met			

500	505	510
Val Thr Gly Asp His Pro Ile Thr	Ala Lys Ala Ile	Ala Lys Gly Val
515	520	525
Gly Ile Ile Ser Glu Gly Asn Glu Thr	Val Glu Asp Ile	Ala Ala Arg
530	535	540
Leu Asn Ile Pro Met Ser Gln Val Asn Pro	Arg Glu Ala Lys	Ala Cys
545	550	555
Val Val His Gly Ser Asp Leu Lys Asp Met	Thr Ser Glu Gln	Leu Asp
565	570	575
Glu Ile Leu Lys Asn His Thr Glu Ile	Val Phe Ala Arg	Thr Ser Pro
580	585	590
Gln Gln Lys Leu Ile Ile Val Glu Gly Cys	Gln Arg Gln Gly	Ala Ile
595	600	605
Val Ala Val Thr Gly Asp Gly Val Asp Asp	Ser Pro Ala Leu	Lys Lys
610	615	620
Ala Asp Ile Gly Ile Ala Met Gly Ile Ser	Gly Ser Asp Val	Ser Lys
625	630	635
Gln Ala Ala Asp Met Ile Leu Leu Asp Asp	Asn Phe Ala Ser	Ile Val
645	650	655
Thr Gly Val Glu Glu Gly Arg Leu Ile Phe	Asp Asn Leu Lys	Lys Ser
660	665	670
Ile Ala Tyr Thr Leu Thr Ser Asn Ile Pro	Glu Ile Thr Pro	Phe Leu
675	680	685
Leu Phe Ile Ile Ala Asn Ile Pro Leu Pro	Leu Gly Thr Val	Thr Ile
690	695	700
Leu Cys Ile Asp Leu Gly Thr Asp Met Val	Pro Ala Ile Ser	Leu Ala
705	710	715
Tyr Glu Ala Ala Glu Ser Asp Ile Met Lys	Arg Gln Pro Arg	Asn Ser
725	730	735
Gln Thr Asp Lys Leu Val Asn Glu Arg Leu	Ile Ser Met Ala	Tyr Gly
740	745	750
Gln Ile Gly Met Ile Gln Ala Leu Gly Gly	Phe Phe Thr Tyr	Phe Val
755	760	765
Ile Leu Ala Glu Asn Gly Phe Leu Pro Ser	Arg Leu Leu Gly	Ile Arg
770	775	780
Leu Asp Trp Asp Asp Arg Thr Met Asn Asp	Leu Glu Asp Ser	Tyr Gly

785 790 795 800
 Gln Glu Trp Thr Tyr Glu Gln Arg Lys Val Val Glu Phe Thr Cys His
 805 810 815
 Thr Ala Phe Phe Ala Ser Ile Val Val Val Gln Trp Ala Asp Leu Ile
 820 825 830
 Ile Cys Lys Thr Arg Arg Asn Ser Val Phe Gln Gln Gly Met Lys Asn
 835 840 845
 Lys Ile Leu Ile Phe Gly Leu Leu Glu Glu Thr Ala Leu Ala Ala Phe
 850 855 860
 Leu Ser Tyr Cys Pro Gly Met Gly Val Ala Leu Arg Met Tyr Pro Leu
 865 870 875 880
 Lys Val Thr Trp Trp Phe Cys Ala Phe Pro Tyr Ser Leu Leu Ile Phe
 885 890 895
 Ile Tyr Asp Glu Val Arg Lys Leu Ile Leu Arg Arg Tyr Pro Gly Gly
 900 905 910
 Trp Val Glu Lys Glu Thr Tyr Tyr
 915 920

<210> 2360

<211> 293

<212> PRT

<213> Homo sapiens

<400> 2360

Met Glu Leu Ser Asp Phe Glu Asp Cys Leu Thr Leu Phe Ala Gly Asp
 1 5 10 15
 Pro Gly Leu Gly Pro Glu Glu Leu Arg Ala Ala Met Gly Lys Ala Lys
 20 25 30
 Gln Leu Trp Gly Pro Pro Arg Gly Phe Arg Pro Glu Gln Ile Leu Gln
 35 40 45
 Leu Gly Arg Leu Leu Ile Gly Leu Gly Asp Arg Glu Leu Gln Glu Leu
 50 55 60
 Ile Leu Val Asp Trp Gly Val Leu Ser Thr Leu Gly Gln Ile Asp Gly
 65 70 75 80
 Trp Ser Thr Thr Gln Leu Arg Ile Val Val Ser Ser Phe Leu Arg Gln

85	90	95
Ser Gly Arg His Val	Ser His Leu Asp Phe Val	His Leu Thr Ala Leu
100	105	110
Gly Tyr Thr Leu Cys Gly Leu Arg Pro Glu Glu Leu Gln His Ile Ser		
115	120	125
Ser Trp Glu Phe Ser Gln Ala Ala Leu Phe Leu Gly Thr Leu His Leu		
130	135	140
Gln Cys Ser Glu Glu Gln Leu Glu Val Leu Ala His Leu Leu Val Leu		
145	150	155
Pro Gly Gly Phe Gly Pro Ile Ser Asn Trp Gly Pro Glu Ile Phe Thr		
165	170	175
Glu Ile Gly Thr Ile Ala Ala Gly Ile Pro Asp Leu Ala Leu Ser Ala		
180	185	190
Leu Leu Arg Gly Gln Ile Gln Gly Val Thr Pro Leu Ala Ile Ser Val		
195	200	205
Ile Pro Pro Pro Lys Phe Ala Val Val Phe Ser Pro Ile Gln Leu Ser		
210	215	220
Ser Leu Thr Ser Ala Gln Ala Val Ala Val Thr Pro Glu Gln Met Ala		
225	230	235
Phe Leu Ser Pro Glu Gln Arg Arg Ala Val Ala Trp Ala Gln His Glu		
245	250	255
Gly Lys Glu Ser Pro Glu Gln Gln Gly Arg Ser Thr Ala Trp Gly Leu		
260	265	270
Gln Asp Trp Ser Arg Pro Ser Trp Ser Leu Val Leu Thr Ile Ser Phe		
275	280	285
Leu Gly His Leu Leu		
290		

<210> 2361

<211> 173

<212> PRT

<213> Homo sapiens

<400> 2361

Met Trp Val Pro Ala Gly Gln Ala Ile Gly Gly Tyr Gly Pro Pro Pro

```

      1             5             10             15
Ala Gly Arg Gly Ala Pro Pro Pro Pro Pro Pro Phe Thr Ser Tyr Ile
      20             25             30
Val Ser Thr Pro Pro Gly Gly Phe Pro Pro Pro Gln Gly Phe Pro Gln
      35             40             45
Gly Tyr Gly Ala Pro Pro Gln Phe Ser Phe Gly Tyr Gly Pro Pro Pro
      50             55             60
Pro Pro Pro Asp Gln Phe Ala Pro Pro Gly Val Pro Pro Pro Pro Ala
      65             70             75             80
Thr Pro Gly Ala Ala Pro Leu Ala Phe Pro Pro Pro Pro Ser Gln Ala
      85             90             95
Ala Pro Asp Met Ser Lys Pro Pro Thr Ala Gln Pro Asp Phe Pro Tyr
      100            105            110
Gly Gln Tyr Ala Gly Tyr Gly Gln Asp Leu Ser Gly Phe Gly Gln Gly
      115            120            125
Phe Ser Asp Pro Ser Gln Gln Pro Pro Ser Tyr Gly Gly Pro Ser Val
      130            135            140
Pro Gly Ser Gly Gly Pro Pro Ala Gly Gly Ser Gly Phe Gly Arg Gly
      145            150            155            160
Gln Asn His Asn Val Gln Gly Phe His Pro Tyr Arg Arg
      165            170

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<210> 2362

<211> 270

<212> PRT

<213> Homo sapiens

<400> 2362

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Met His Gly Ser Cys Ser Phe Leu Met Leu Leu Leu Pro Leu Leu Leu
      1             5             10             15
Leu Leu Val Ala Thr Thr Gly Pro Val Gly Ala Leu Thr Asp Glu Glu
      20             25             30
Lys Arg Leu Met Val Glu Leu His Asn Leu Tyr Arg Ala Gln Val Ser
      35             40             45

```

Pro Pro Ala Ser Asp Met Leu His Met Arg Trp Asp Glu Glu Leu Ala
 50 55 60
 Ala Phe Ala Lys Ala Tyr Ala Arg Gln Cys Val Trp Gly His Asn Lys
 65 70 75 80
 Glu Arg Gly Arg Arg Gly Glu Asn Leu Phe Ala Ile Thr Asp Glu Gly
 85 90 95
 Met Asp Val Pro Leu Ala Met Glu Glu Trp His His Glu Arg Glu His
 100 105 110
 Tyr Asn Leu Ser Ala Ala Thr Cys Ser Pro Gly Gln Met Cys Gly His
 115 120 125
 Tyr Thr Gln Val Val Trp Ala Lys Thr Glu Arg Ile Gly Cys Gly Ser
 130 135 140
 His Phe Cys Glu Lys Leu Gln Gly Val Glu Glu Thr Asn Ile Glu Leu
 145 150 155 160
 Leu Val Cys Asn Tyr Glu Pro Pro Gly Asn Val Lys Gly Lys Arg Pro
 165 170 175
 Tyr Gln Glu Gly Thr Pro Cys Ser Gln Cys Pro Ser Gly Tyr His Cys
 180 185 190
 Lys Asn Ser Leu Cys Glu Pro Ile Gly Ser Pro Glu Asp Ala Gln Asp
 195 200 205
 Leu Pro Tyr Leu Val Thr Glu Ala Pro Ser Phe Arg Ala Thr Glu Ala
 210 215 220
 Ser Asp Ser Arg Lys Met Gly Ala Glu Gly Pro Asp Lys Pro Ser Val
 225 230 235 240
 Val Ser Gly Leu Asn Ser Gly Pro Gly His Val Trp Gly Pro Leu Leu
 245 250 255
 Gly Leu Leu Leu Leu Pro Pro Leu Val Leu Ala Gly Ile Phe
 260 265 270

<210> 2363

<211> 119

<212> PRT

<213> Homo sapiens

<400> 2363

```

Met Arg Lys Lys Gly Ser Leu Pro Leu Gly Pro Ala Leu Leu Met His
 1             5             10             15
Val Cys Ala His Ala Cys Lys Pro Gly Thr Phe Ser Ser Arg Pro Pro
          20             25             30
Gly Leu Gly Gln Phe Leu Leu Leu Leu Pro Ser Pro Pro Thr Gly Cys
 35             40             45
Val Leu Ser Asn Trp Asn Met Arg Leu Tyr Leu Gln Asp Trp Pro His
 50             55             60
Gly Gly Arg Val Arg Ser Leu Phe Pro Val Ser Arg His Arg Ser Leu
 65             70             75             80
Ser Leu Ala Leu Pro Cys Phe Gly Ala Ser Leu Val Ala Pro Val Arg
          85             90             95
Phe Ser Arg Leu Val Ala Ala Gln Ser Gly Val Arg Thr Cys Arg Gly
          100             105             110
His Ala Phe Leu Ala Leu Thr
          115

```

<210> 2364

<211> 242

<212> PRT

<213> Homo sapiens

<400> 2364

```

Met Pro Pro Gly His Thr His Ser Gly Ser Asp Ser Ser Asp Ser Glu
 1             5             10             15
Tyr Ser Ser Gln Thr Thr Val Ser Gly Leu Ser Glu Glu Leu Arg His
          20             25             30
Tyr Glu Ala Gln Gln Gly Ala Gly Gly Pro Ala His Gln Val Ile Val
          35             40             45
Glu Ala Thr Glu Asn Pro Val Phe Ala His Ser Thr Val Val His Pro
          50             55             60
Glu Ser Arg His His Pro Pro Ser Asn Pro Arg Gln Gln Pro His Leu
          65             70             75             80
Asp Ser Gly Ser Leu Pro Pro Gly Arg Gln Gly Gln Gln Pro Arg Arg
          85             90             95

```

Asp Pro Pro Arg Glu Gly Leu Trp Pro Pro Pro Tyr Arg Pro Arg Arg
 100 105 110
 Asp Ala Phe Glu Ile Ser Thr Glu Gly His Ser Gly Pro Ser Asn Arg
 115 120 125
 Ala Arg Trp Gly Pro Arg Gly Ala Arg Ser His Asn Pro Arg Asn Pro
 130 135 140
 Ala Ser Thr Ala Met Gly Ser Ser Val Pro Gly Tyr Cys Gln Pro Ile
 145 150 155 160
 Thr Thr Val Thr Ala Ser Ala Ser Val Thr Val Ala Val His Pro Pro
 165 170 175
 Pro Val Pro Gly Pro Gly Arg Asn Pro Arg Gly Gly Leu Cys Pro Gly
 180 185 190
 Tyr Pro Glu Thr Asp His Gly Leu Phe Glu Asp Pro Thr Cys Leu Ser
 195 200 205
 Thr Ser Gly Val Arg Gly Gly Ile Arg Arg Trp Lys Ser Leu Ser Cys
 210 215 220
 Arg Thr Trp Asn Ala Arg Arg Gly Pro Gly Glu Ala Ala Pro Thr Glu
 225 230 235 240
 Gly Asp

<210> 2365

<211> 945

<212> PRT

<213> Homo sapiens

<400> 2365

Met Ala Glu Gly Gln Gly Gly Gly Gly Gln Arg Trp Asp Trp Ala Gly
 1 5 10 15
 Gly Gly Arg Ala Ala Glu Glu Glu Val Val Arg Arg Arg Cys Arg Arg
 20 25 30
 Gly Glu Glu Ala Gln Val Ala Gln Pro Trp Pro Glu Gly Ser Arg Gly
 35 40 45
 Thr Ala Ala Gly Pro Pro Val Glu Glu Arg Phe Arg Gln Leu His Leu
 50 55 60

Arg Lys Gln Val Ser Tyr Arg Lys Ala Ile Thr Lys Ser Gly Leu Gln			
65	70	75	80
His Leu Ala Pro Pro Pro Pro Thr Pro Gly Ala Pro Cys Ser Glu Ser			
	85	90	95
Glu Arg Gln Ile Arg Ser Thr Val Asp Trp Ser Glu Ser Ala Thr Tyr			
	100	105	110
Gly Glu His Ile Trp Phe Glu Thr Asn Val Ser Gly Asp Phe Cys Tyr			
	115	120	125
Val Gly Glu Gln Tyr Cys Val Ala Arg Met Leu Lys Ser Val Ser Arg			
	130	135	140
Arg Lys Cys Ala Ala Cys Lys Ile Val Val His Thr Pro Cys Ile Glu			
145	150	155	160
Gln Leu Glu Lys Ile Asn Phe Arg Cys Lys Pro Ser Phe Arg Glu Ser			
	165	170	175
Gly Ser Arg Asn Val Arg Glu Pro Thr Phe Val Arg His His Trp Val			
	180	185	190
His Arg Arg Arg Gln Asp Gly Lys Cys Arg His Cys Gly Lys Gly Phe			
	195	200	205
Gln Gln Lys Phe Thr Phe His Ser Lys Glu Ile Val Ala Ile Ser Cys			
	210	215	220
Ser Trp Cys Lys Gln Ala Tyr His Ser Lys Val Ser Cys Phe Met Leu			
225	230	235	240
Gln Gln Ile Glu Glu Pro Cys Ser Leu Gly Val His Ala Ala Val Val			
	245	250	255
Ile Pro Pro Thr Trp Ile Leu Arg Ala Arg Arg Pro Gln Asn Thr Leu			
	260	265	270
Lys Ala Ser Lys Lys Lys Lys Arg Ala Ser Phe Lys Arg Lys Ser Ser			
	275	280	285
Lys Lys Gly Pro Glu Glu Gly Arg Trp Arg Pro Phe Ile Ile Arg Pro			
	290	295	300
Thr Pro Ser Pro Leu Met Lys Pro Leu Leu Val Phe Val Asn Pro Lys			
305	310	315	320
Ser Gly Gly Asn Gln Gly Ala Lys Ile Ile Gln Ser Phe Leu Trp Tyr			
	325	330	335
Leu Asn Pro Arg Gln Val Phe Asp Leu Ser Gln Gly Gly Pro Lys Glu			
	340	345	350

Ala Leu Glu Met Tyr Arg Lys Val His Asn Leu Arg Ile Leu Ala Cys
 355 360 365
 Gly Gly Asp Gly Thr Val Gly Trp Ile Leu Ser Thr Leu Asp Gln Leu
 370 375 380
 Arg Leu Lys Pro Pro Pro Pro Val Ala Ile Leu Pro Leu Gly Thr Gly
 385 390 395 400
 Asn Asp Leu Ala Arg Thr Leu Asn Trp Gly Gly Gly Tyr Thr Asp Glu
 405 410 415
 Pro Val Ser Lys Ile Leu Ser His Val Glu Glu Gly Asn Val Val Gln
 420 425 430
 Leu Asp Arg Trp Asp Leu His Ala Glu Pro Asn Pro Glu Ala Gly Pro
 435 440 445
 Glu Asp Arg Asp Glu Gly Ala Thr Asp Arg Leu Pro Leu Asp Val Phe
 450 455 460
 Asn Asn Tyr Phe Ser Leu Gly Phe Asp Ala His Val Thr Leu Glu Phe
 465 470 475 480
 His Glu Ser Arg Glu Ala Asn Pro Glu Lys Phe Asn Ser Arg Phe Arg
 485 490 495
 Asn Lys Met Phe Tyr Ala Gly Thr Ala Phe Ser Asp Phe Leu Met Gly
 500 505 510
 Ser Ser Lys Asp Leu Ala Lys His Ile Arg Val Val Cys Asp Gly Met
 515 520 525
 Asp Leu Thr Pro Lys Ile Gln Asp Leu Lys Pro Gln Cys Val Val Phe
 530 535 540
 Leu Asn Ile Pro Arg Tyr Cys Ala Gly Thr Met Pro Trp Gly His Pro
 545 550 555 560
 Gly Glu His His Asp Phe Glu Pro Gln Arg His Asp Asp Gly Tyr Leu
 565 570 575
 Glu Val Ile Gly Phe Thr Met Thr Ser Leu Ala Ala Leu Gln Val Gly
 580 585 590
 Gly His Gly Glu Arg Leu Thr Gln Cys Arg Glu Val Val Leu Thr Thr
 595 600 605
 Ser Lys Ala Ile Pro Val Gln Val Asp Gly Glu Pro Cys Lys Leu Ala
 610 615 620
 Ala Ser Arg Ile Arg Ile Ala Leu Arg Asn Gln Ala Thr Met Val Gln
 625 630 635 640

Lys Ala Lys Arg Arg Ser Ala Ala Pro Leu His Ser Asp Gln Gln Pro
 645 650 655
 Val Pro Glu Gln Leu Arg Ile Gln Val Ser Arg Val Ser Met His Asp
 660 665 670
 Tyr Glu Ala Leu His Tyr Asp Lys Glu Gln Leu Lys Glu Ala Ser Val
 675 680 685
 Pro Leu Gly Thr Val Val Val Pro Gly Asp Ser Asp Leu Glu Leu Cys
 690 695 700
 Arg Ala His Ile Glu Arg Leu Gln Gln Glu Pro Asp Gly Ala Gly Ala
 705 710 715 720
 Lys Ser Pro Thr Cys Gln Lys Leu Ser Pro Lys Trp Cys Phe Leu Asp
 725 730 735
 Ala Thr Thr Ala Ser Arg Phe Tyr Arg Ile Asp Arg Ala Gln Glu His
 740 745 750
 Leu Asn Tyr Val Thr Glu Ile Ala Gln Asp Glu Ile Tyr Ile Leu Asp
 755 760 765
 Pro Glu Leu Leu Gly Ala Ser Ala Arg Pro Asp Leu Pro Thr Pro Thr
 770 775 780
 Ser Pro Leu Pro Thr Ser Pro Cys Ser Pro Thr Pro Arg Ser Leu Gln
 785 790 795 800
 Gly Asp Ala Ala Pro Pro Gln Gly Glu Glu Leu Ile Glu Ala Ala Lys
 805 810 815
 Arg Asn Asp Phe Cys Lys Leu Gln Glu Leu His Arg Ala Gly Gly Asp
 820 825 830
 Leu Met His Arg Asp Glu Gln Ser Arg Thr Leu Leu His His Ala Val
 835 840 845
 Ser Thr Gly Ser Lys Asp Val Val Arg Tyr Leu Leu Asp His Ala Pro
 850 855 860
 Pro Glu Ile Leu Asp Ala Val Glu Glu Asn Gly Glu Thr Cys Leu His
 865 870 875 880
 Gln Ala Ala Ala Leu Gly Gln Arg Thr Ile Cys His Tyr Ile Val Glu
 885 890 895
 Ala Gly Ala Ser Leu Met Lys Thr Asp Gln Gln Gly Asp Thr Pro Arg
 900 905 910
 Gln Arg Ala Glu Lys Ala Gln Asp Thr Glu Leu Ala Ala Tyr Leu Glu
 915 920 925

Asn Arg Gln His Tyr Gln Met Ile Gln Arg Glu Asp Gln Glu Thr Ala
 930 935 940

Val

945

<210> 2366

<211> 115

<212> PRT

<213> Homo sapiens

<400> 2366

Met Gly Tyr Asn Pro Val Leu Leu Ser Phe Val Arg Met Phe Pro Ala
 1 5 10 15

Gln Ala Leu Arg Ser Ser Leu Ser Ser Tyr Val Leu Phe Ala Tyr Pro
 20 25 30

Val Ile Val Gly Phe Cys Trp Val Leu Cys Val Leu Asn Thr Phe Leu
 35 40 45

Leu Ser Gly Thr Thr Arg Tyr Ser Arg Leu Ile Leu Cys Val Ser Tyr
 50 55 60

Arg Ser Pro Lys Ile Ser His Phe Ser Lys Lys Pro Ser Phe Leu Leu
 65 70 75 80

Leu Glu Arg Glu Ile Arg Asn His Gly Cys Trp Val Cys Ser Leu Leu
 85 90 95

Leu Gly Cys Leu Ser Phe Gly Pro Ser His Leu Thr Lys Gly Tyr Met
 100 105 110

Cys Phe Tyr

115

<210> 2367

<211> 217

<212> PRT

<213> Homo sapiens

<400> 2367

Met Ala Ser Ala Gly Pro Asn Arg Pro Glu Ile Ser Leu Ala Arg Asn
 1 5 10 15
 Ser Thr Cys Val Gly Cys Pro Asn Asn His Ser Phe Ser Arg Thr Val
 20 25 30
 Ala His Gly Gly Arg Ala Leu Ala Ser Ala Trp Pro Pro Gln Ala Gln
 35 40 45
 Phe Leu Pro Val Gly Gly Arg Ser Arg Pro Gly Ser Cys Pro Ser Ala
 50 55 60
 Ser Ser Pro Gly Pro Glu Leu Val Pro Val Gly Leu Ser Arg Pro Ser
 65 70 75 80
 Ser Pro Gly His Leu His Gly Pro Ser Ser Cys Leu Thr Thr Thr Thr
 85 90 95
 Phe Gly Pro Ala Pro Ala Gln Leu Leu Ala Ala Val Val Gly Pro Arg
 100 105 110
 Leu Pro Cys Val Gln Ala Ser Arg Thr His Leu Arg Leu Ser Gly Gly
 115 120 125
 Pro Glu Arg Pro Gly Ser Cys Leu Pro Ala Ala Ser Pro Gly Pro Ala
 130 135 140
 Ala Ala Ser Arg Arg Pro Pro Gln Ala Thr Phe Pro Pro Ala Ser Arg
 145 150 155 160
 Gln Pro Arg Gln Ala Arg Leu Pro Pro Ala Gly Gly Leu Leu Arg Arg
 165 170 175
 Leu Ile Ser Cys Pro Ala Ala Ala Ser Pro Gly Gln Ala Pro Ala Cys
 180 185 190
 Arg Gln Ala Pro Gln Ala Gln Leu Leu Arg Pro Glu Gly Phe Ser Arg
 195 200 205
 Pro Gly Ser Cys Leu Ala Ala Ala Ser
 210 215

<210> 2368

<211> 196

<212> PRT

<213> Homo sapiens

<400> 2368

Met Gln Gly Cys Ala Arg Ile Asn Ser His Pro Ser Gly Ala Phe Gly
 1 5 10 15
 Asp Gly His Val Gln Tyr Cys Asp Asn Val Val Asp Arg Trp Pro Phe
 20 25 30
 Leu Pro Leu Phe Cys Thr Phe Phe Pro Asp Gly Trp Gly Cys Phe Trp
 35 40 45
 Ala Ala Gln Ser Val Val Gly Ser Trp Gly Arg Gly Asn Gly Pro Gln
 50 55 60
 Leu Leu Pro Gln Glu Leu Trp Lys Trp His Trp His Gly Tyr Ala Pro
 65 70 75 80
 Arg Leu Ser Leu Leu Leu Phe Pro Gly Pro Pro Val Val Ile Thr His
 85 90 95
 Pro Asp Leu Gly Asp Leu His Asn Ile Thr Glu Val Gln Pro Leu Gln
 100 105 110
 Gly Gly Arg Trp Trp His Ser Arg Thr Cys Ser Ser Pro Leu Cys Gly
 115 120 125
 His His Ser Leu Pro Leu Leu Leu Val Ser Leu Ser Leu Ala Glu Arg
 130 135 140
 Gly Pro Ala Gly Pro Ser Glu Cys Phe Trp Arg Asn Ala Leu Ile Gln
 145 150 155 160
 Lys Glu Glu Val Lys Ser Leu Lys Thr Val Gly Asp Lys Thr Gly Asn
 165 170 175
 Cys Phe Cys Phe Met Tyr Asn Lys Tyr Leu Pro Phe Tyr Val Ser His
 180 185 190
 Phe Leu Gly Ile
 195

<210> 2369

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2369

Met Thr Gly Tyr His Lys Thr Arg Val Arg Gly Glu Lys Arg Gln Gly

1	5	10	15
Asp Gly Lys Lys Ser Trp Arg Ile Tyr Val Gln Ser Cys Gln Leu Gln			
20	25	30	
Met Thr Lys Val Lys Pro Gln Ile Ser Arg Met Leu Arg Arg Met Gly			
35	40	45	
Asn Ile Phe Leu Glu Asp Trp Ala Ala Pro Thr Pro Thr Leu Thr Leu			
50	55	60	
Pro Ser Pro Thr Leu Ile Pro Thr Ser Glu Val Gln Ile Lys Gly Arg			
65	70	75	80
Gly Gln Arg Glu Phe Gln Ser Arg Phe Leu Asp Ser Ser Phe Phe Pro			
85	90	95	
Leu Cys Leu Pro Met Val Ser Pro Ser Leu Gly Ile Leu			
100	105		

<210> 2370

<211> 283

<212> PRT

<213> Homo sapiens

<400> 2370

Met Asn Thr Leu Ser Phe Ala Val Leu Lys Glu Gly Arg Gln Leu Thr			
1	5	10	15
Tyr Glu Lys Val Asn Leu Ser Ser Ile Arg Ala Met Leu Asn Ser Asn			
20	25	30	
Asp Val Ser Glu Tyr Leu Lys Ile Ser Pro His Gly Leu Glu Ala Arg			
35	40	45	
Cys Asp Ala Ser Ser Phe Glu Ser Val Arg Cys Thr Phe Cys Val Asp			
50	55	60	
Ala Gly Val Trp Tyr Tyr Glu Val Thr Val Val Thr Ser Gly Val Met			
65	70	75	80
Gln Ile Gly Trp Ala Thr Arg Asp Ser Lys Phe Leu Asn His Glu Gly			
85	90	95	
Tyr Gly Ile Gly Asp Asp Glu Tyr Ser Cys Ala Tyr Asp Gly Cys Arg			
100	105	110	
Gln Leu Ile Trp Tyr Asn Ala Arg Ser Lys Pro His Ile His Pro Cys			

115	120	125
Trp Lys Glu Gly Asp Thr Val	Gly Phe Leu Leu Asp Leu Asn Glu Lys	
130	135	140
Gln Met Ile Phe Phe Leu Asn Gly Asn Gln Leu Pro Pro Glu Lys Gln		
145	150	155
Val Phe Ser Ser Thr Val Ser Gly Phe Phe Ala Ala Ala Ser Phe Met		
165	170	175
Ser Tyr Gln Gln Cys Glu Phe Asn Phe Gly Ala Lys Pro Phe Lys Tyr		
180	185	190
Pro Pro Ser Met Lys Phe Ser Thr Phe Asn Asp Tyr Ala Phe Leu Thr		
195	200	205
Ala Glu Glu Lys Ile Ile Leu Pro Arg His Arg Arg Leu Ala Leu Leu		
210	215	220
Lys Gln Val Ser Ile Arg Glu Asn Cys Cys Ser Leu Cys Cys Asp Glu		
225	230	235
Val Ala Asp Thr Gln Leu Lys Pro Cys Gly His Ser Asp Leu Cys Met		
245	250	255
Asp Cys Ala Leu Gln Leu Glu Thr Cys Pro Leu Cys Arg Lys Glu Ile		
260	265	270
Val Ser Arg Ile Arg Gln Ile Ser His Ile Ser		
275	280	

<210> 2371

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2371

Met Leu Leu Met Ser Tyr Gly Ser Leu Leu Val Gln Leu Ala His Pro
1 5 10 15
Pro Ile His Ser Leu Phe Asp Ser Gln Gln Leu Ser Val Phe Ser Cys
20 25 30
Cys Ser Ser Trp Phe Ser Ser Leu Phe Leu Val Leu Phe Phe Ser Ser
35 40 45
Phe Phe Ser Asn Phe Phe Ser Val Leu Asp Cys Leu Ser Leu Met Phe

50 55 60
 Cys Ser Phe Phe Leu Phe Phe Leu Glu Thr Gly Ser His Ser Val Thr
 65 70 75 80
 Gln Asp Gly Val Gln Trp His Asp Val Gly Ser Leu Gln Ser Leu Pro
 85 90 95
 Pro Lys Ala Gln Ala Ile Leu Pro Ser Gln Pro Pro Lys
 100 105

<210> 2372

<211> 372

<212> PRT

<213> Homo sapiens

<400> 2372

Met Asp Gln Tyr Lys Phe Tyr Asp Pro Ser Pro Pro Arg Arg Arg Gly
 1 5 10 15
 Asn Trp Ile Thr Leu Lys Met Arg Lys Leu Ile Lys Ser Lys Lys Asp
 20 25 30
 Ile Asn Arg Glu Arg Gln Lys Ser Leu Thr Leu Thr Pro Thr Arg Ser
 35 40 45
 Asp Ser Ser Glu Gly Phe Leu Gln Leu Pro His Gln Asp Ser Gln Asp
 50 55 60
 Ser Ser Ser Val Gly Ser Asn Ser Leu Glu Asp Gly Gln Thr Leu Gly
 65 70 75 80
 Thr Lys Lys Ser Ser Asn Thr Thr Ser Phe Glu Asp Ile Ser Pro Gln
 85 90 95
 Gly Val Ser Asp Asp Ser Ser Thr Gly Ser Arg Val His Ala Gly Ala
 100 105 110
 Val Asn Asn Gln Ser Arg Pro Gln Ser His Ser Ser Gly Glu Phe Ser
 115 120 125
 Leu Leu His Asp His Glu Ala Trp Ser Ser Ser Gly Ser Ser Pro Ile
 130 135 140
 Gln Tyr Leu Lys Arg Gln Thr Arg Ser Ser Pro Val Leu Gln His Lys
 145 150 155 160
 Ile Ser Glu Thr Leu Glu Ser Arg His His Lys Ile Lys Thr Gly Ser

	165		170		175
Pro Gly Ser Glu Val Val Thr Leu Gln Gln Phe Leu Glu Glu Ser Asn					
	180		185		190
Lys Leu Thr Ser Val Gln Ile Lys Ser Ser Ser Gln Glu Asn Leu Leu					
	195		200		205
Asp Glu Val Met Lys Ser Leu Ser Val Ser Ser Asp Phe Leu Gly Lys					
	210		215		220
Asp Lys Pro Val Ser Cys Gly Leu Ala Arg Ser Val Ser Gly Lys Thr					
225		230		235	240
Pro Gly Asp Phe Tyr Asp Arg Arg Thr Thr Lys Pro Glu Phe Leu Arg					
	245		250		255
Pro Gly Pro Arg Lys Thr Glu Asp Thr Tyr Phe Ile Ser Ser Ala Gly					
	260		265		270
Lys Pro Thr Pro Gly Thr Gln Gly Lys Ile Lys Leu Val Lys Glu Ser					
	275		280		285
Ser Leu Ser Arg Gln Ser Lys Asp Ser Asn Pro Tyr Ala Thr Leu Pro					
	290		295		300
Arg Ala Ser Ser Val Ile Ser Thr Ala Glu Gly Thr Thr Arg Arg Thr					
305		310		315	320
Ser Ile His Asp Phe Leu Thr Lys Asp Ser Arg Leu Pro Ile Ser Val					
	325		330		335
Asp Ser Pro Pro Ala Ala Ala Asp Ser Asn Thr Thr Ala Ala Ser Asn					
	340		345		350
Val Asp Lys Val Gln Glu Ser Arg Asn Ser Lys Ser Arg Ser Arg Glu					
	355		360		365
Gln Gln Ser Ser					
	370				

<210> 2373

<211> 304

<212> PRT

<213> Homo sapiens

<400> 2373

Met Asp Ile Ser Gly Leu Ile Pro Gly Leu Val Ser Thr Phe Ile Leu

1	5	10	15
Leu Ser Ile	Ser Asp His Tyr Gly Arg Lys Phe Pro Met	Ile Leu Ser	
20	25	30	
Ser Val Gly Ala Leu Ala Thr Ser Val Trp Leu Cys Leu Leu Cys Tyr			
35	40	45	
Phe Ala Phe Pro Phe Gln Leu Leu Ile Ala Ser Thr Phe Ile Gly Ala			
50	55	60	
Phe Cys Gly Asn Tyr Thr Thr Phe Trp Gly Ala Cys Phe Ala Tyr Ile			
65	70	75	80
Val Asp Gln Cys Lys Glu His Lys Gln Lys Thr Ile Arg Ile Ala Ile			
85	90	95	
Ile Asp Phe Leu Leu Gly Leu Val Thr Gly Leu Thr Gly Leu Ser Ser			
100	105	110	
Gly Tyr Phe Ile Arg Glu Leu Gly Phe Glu Trp Ser Phe Leu Ile Ile			
115	120	125	
Ala Val Ser Leu Ala Val Asn Leu Ile Tyr Ile Leu Phe Phe Leu Gly			
130	135	140	
Asp Pro Val Lys Glu Cys Ser Ser Gln Asn Val Thr Met Ser Cys Ser			
145	150	155	160
Glu Gly Phe Lys Asn Leu Phe Tyr Arg Thr Tyr Met Leu Phe Lys Asn			
165	170	175	
Ala Ser Gly Lys Arg Arg Phe Leu Leu Cys Leu Leu Leu Phe Thr Val			
180	185	190	
Ile Thr Tyr Phe Phe Val Val Ile Gly Ile Ala Pro Ile Phe Ile Leu			
195	200	205	
Tyr Glu Leu Asp Ser Pro Leu Cys Trp Asn Glu Val Phe Ile Gly Tyr			
210	215	220	
Gly Ser Ala Leu Gly Ser Ala Ser Phe Leu Thr Ser Phe Leu Gly Ile			
225	230	235	240
Trp Leu Phe Ser Tyr Cys Met Glu Asp Ile His Met Ala Phe Ile Gly			
245	250	255	
Ile Phe Thr Thr Met Thr Gly Met Ala Met Thr Ala Phe Ala Ser Thr			
260	265	270	
Thr Leu Met Met Phe Phe Ser Gln Gly Ala Val Pro Phe His Tyr Cys			
275	280	285	
Ala Ile Leu Cys Ser Thr Val His Val Val Lys Ser Gly Ser Phe Asp			

290

295

300

<210> 2374

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2374

Met Gly Ile Leu Tyr Asp Ala Glu Val Tyr Gly Thr Ile Ile Pro Thr
 1 5 10 15
 Ser Gln Val Val Ser Met Val Pro Ser Ser Phe Ser Thr Leu Ser Pro
 20 25 30
 Ser Pro Val Ser Ile Ala Ala Ile Phe Met Ser Met Ser Ile Gln Cys
 35 40 45
 Leu Leu Leu Phe Thr Ser Glu Asn Met Gln Tyr Leu Val Phe Phe Cys
 50 55 60
 Tyr Ile Asn Ser Leu Arg Ile Met Ala Ser Ser Ser Ile His Val Ala
 65 70 75 80
 Ala Lys Asp Met Ile Leu Phe Phe Phe Ile Ala Val Trp Tyr Ser Met
 85 90 95
 Met Tyr Val Tyr His Ser Phe Ile Ile Arg Ser Thr Val Asp Arg His
 100 105 110
 Leu Gly

<210> 2375

<211> 139

<212> PRT

<213> Homo sapiens

<400> 2375

Met Phe Trp Pro Gln Ser Asp Ala Cys Pro Thr Pro Gly Thr Pro Ser
 1 5 10 15
 Ser Met Leu Gln Glu Gly Gly Gln Val Asp Pro Gly Val Cys Arg Ser

[illegible]

<210> 2376

<211> 168

<212> PRT

<213> Homo sapiens

<400> 2376

Met	Pro	Asp	Val	Pro	Asp	Ala	Phe	Pro	Glu	Leu	Ser	Glu	Leu	Ser	Val
1				5				10						15	
Ser	Gln	Leu	Thr	Asp	Met	Asn	Glu	Gln	Glu	Glu	Val	Leu	Leu	Glu	Gln
				20				25						30	
Phe	Leu	Thr	Leu	Pro	Gln	Leu	Lys	Gln	Ile	Ile	Thr	Asp	Lys	Asp	Asp
				35				40						45	
Leu	Val	Lys	Ser	Ile	Glu	Glu	Leu	Ala	Arg	Lys	Asn	Leu	Leu	Leu	Glu
				50				55						60	
Pro	Ser	Leu	Glu	Ala	Lys	Arg	Gln	Thr	Val	Leu	Asp	Lys	Met	Lys	Ser
65					70					75					80
Thr	Phe	Glu	Lys	Lys	Met	Gln	Arg	Gln	His	Glu	Leu	Ser	Glu	Ser	Cys
				85						90					95

Ser Ala Ser Ala Leu Gln Ala Arg Leu Lys Val Ala Ala His Glu Ala
 100 105 110
 Glu Glu Glu Ser Asp Asn Ile Ala Glu Asp Phe Leu Glu Gly Lys Met
 115 120 125
 Glu Ile Asp Asp Phe Leu Ser Ser Phe Met Glu Lys Arg Thr Ile Cys
 130 135 140
 His Cys Arg Arg Ala Lys Glu Glu Lys Leu Gln Gln Ala Ile Ala Met
 145 150 155 160
 His Ser Gln Phe His Ala Pro Leu
 165

<210> 2377

<211> 352

<212> PRT

<213> Homo sapiens

<400> 2377

Met Pro Ser Gly Val Pro Gly Cys Trp Pro Gln Leu Pro Leu Lys Gly
 1 5 10 15
 Pro Trp Arg Pro Thr Pro Arg Pro Arg Val Pro Val Pro Trp Arg Thr
 20 25 30
 Pro Arg Phe Ala Cys Arg Trp Leu Gly Tyr Leu Gly Leu Leu Leu Leu
 35 40 45
 Asp Val Ile Ile Cys Leu Leu Val Leu Val Gly Leu Ile Arg Ser Ser
 50 55 60
 Lys Gly Ile Leu Val Gly Val Cys Leu Leu Gly Val Leu Ala Leu Val
 65 70 75 80
 Ile Ser Trp Gly Ala Leu Gly Leu Glu Leu Ala Val Ser Val Gly Ser
 85 90 95
 Ser Asp Phe Cys Val Asp Pro Asp Ala Tyr Val Thr Lys Met Val Glu
 100 105 110
 Glu Tyr Ser Val Leu Ser Gly Asp Ile Leu Gln Tyr Tyr Leu Ala Cys
 115 120 125
 Ser Pro Arg Ala Ala Asn Pro Phe Gln Gln Lys Leu Ser Gly Ser His
 130 135 140

Lys Ala Leu Val Glu Met Gln Asp Val Val Ala Glu Leu Leu Arg Thr
 145 150 155 160
 Val Pro Trp Glu Gln Pro Ala Thr Lys Asp Pro Leu Leu Arg Val Gln
 165 170 175
 Glu Val Leu Asn Gly Thr Glu Val Asn Leu Gln His Leu Thr Ala Leu
 180 185 190
 Val Asp Cys Arg Ser Leu His Leu Asp Tyr Val Gln Ala Leu Thr Gly
 195 200 205
 Phe Cys Tyr Asp Gly Val Glu Gly Leu Ile Tyr Leu Ala Leu Phe Ser
 210 215 220
 Phe Val Thr Ala Leu Met Phe Ser Ser Ile Val Cys Ser Val Pro His
 225 230 235 240
 Thr Trp Gln Gln Lys Arg Gly Pro Asp Glu Asp Gly Glu Glu Glu Ala
 245 250 255
 Ala Pro Gly Pro Arg Gln Ala His Asp Ser Leu Tyr Arg Val His Met
 260 265 270
 Pro Ser Leu Tyr Ser Cys Gly Ser Ser Tyr Gly Ser Glu Thr Ser Ile
 275 280 285
 Pro Ala Ala Ala His Thr Val Ser Asn Ala Pro Val Thr Glu Tyr Met
 290 295 300
 Ser Gln Asn Ala Asn Phe Gln Asn Pro Arg Cys Glu Asn Thr Pro Leu
 305 310 315 320
 Ile Gly Arg Glu Ser Pro Pro Pro Ser Tyr Thr Ser Ser Met Arg Ala
 325 330 335
 Lys Tyr Leu Ala Thr Ser Gln Pro Arg Pro Asp Ser Ser Gly Ser His
 340 345 350

<210> 2378

<211> 551

<212> PRT

<213> Homo sapiens

<400> 2378

Met Gln Arg Phe Leu Leu Glu Ile Ser Asn Pro Glu Thr Leu Ser Asn
 1 5 10 15

Thr Ala Gly Phe Glu Gly Tyr Ile Asp Leu Gly Arg Glu Leu Ser Ser
 20 25 30
 Leu His Ser Leu Leu Trp Glu Ala Val Ser Gln Leu Glu Gln Ser Ile
 35 40 45
 Val Ser Lys Leu Gly Pro Leu Pro Arg Ile Leu Arg Asp Val His Thr
 50 55 60
 Ala Leu Ser Thr Pro Gly Ser Gly Gln Leu Pro Gly Thr Asn Asp Leu
 65 70 75 80
 Ala Ser Thr Pro Gly Ser Gly Ser Ser Ser Ile Ser Ala Gly Leu Gln
 85 90 95
 Lys Met Val Ile Glu Asn Asp Leu Ser Gly Ser Ser Gly Val Gln Pro
 100 105 110
 Ser Pro Ala Arg Ser Ser Ser Tyr Ser Glu Ala Asn Glu Pro Asp Leu
 115 120 125
 Gln Met Ala Asn Gly Gly Lys Ser Leu Ser Met Val Asp Leu Gln Asp
 130 135 140
 Ala Arg Thr Leu Asp Gly Glu Ala Gly Ser Pro Ala Gly Pro Asp Val
 145 150 155 160
 Leu Pro Thr Asp Gly Gln Ala Ala Ala Ala Gln Leu Val Ala Gly Trp
 165 170 175
 Pro Ala Arg Ala Thr Pro Val Asn Leu Ala Gly Leu Ala Thr Val Arg
 180 185 190
 Arg Ala Gly Gln Thr Pro Thr Thr Pro Gly Thr Ser Glu Gly Ala Pro
 195 200 205
 Gly Arg Pro Gln Leu Leu Ala Pro Leu Ser Phe Gln Asn Pro Val Tyr
 210 215 220
 Gln Met Ala Ala Gly Leu Pro Leu Ser Pro Arg Gly Leu Gly Asp Ser
 225 230 235 240
 Gly Ser Glu Gly His Ser Ser Leu Ser Ser His Ser Asn Ser Glu Glu
 245 250 255
 Leu Ala Ala Ala Ala Lys Leu Gly Ser Phe Ser Thr Ala Ala Glu Glu
 260 265 270
 Leu Ala Arg Arg Pro Gly Glu Leu Ala Arg Arg Gln Met Ser Leu Thr
 275 280 285
 Glu Lys Gly Gly Gln Pro Thr Val Pro Arg Gln Asn Ser Ala Gly Pro
 290 295 300

Gln Arg Arg Ile Asp Gln Pro Pro Pro Pro Pro Pro Pro Pro Pro
 305 310 315 320
 Ala Pro Arg Gly Arg Thr Pro Pro Asn Leu Leu Ser Thr Leu Gln Tyr
 325 330 335
 Pro Arg Pro Ser Ser Gly Thr Leu Ala Ser Ala Ser Pro Asp Trp Val
 340 345 350
 Gly Pro Ser Thr Arg Leu Arg Gln Gln Ser Ser Ser Ser Lys Gly Asp
 355 360 365
 Ser Pro Glu Leu Lys Pro Arg Ala Val His Lys Gln Gly Pro Ser Pro
 370 375 380
 Val Ser Pro Asn Ala Leu Asp Arg Thr Ala Ala Trp Leu Leu Thr Met
 385 390 395 400
 Asn Ala Gln Leu Leu Glu Asp Glu Gly Leu Gly Pro Asp Pro Pro His
 405 410 415
 Arg Asp Arg Leu Arg Ser Lys Asp Glu Leu Ser Gln Ala Glu Lys Asp
 420 425 430
 Leu Ala Val Leu Gln Asp Lys Leu Arg Ile Ser Thr Lys Lys Leu Glu
 435 440 445
 Glu Tyr Glu Thr Leu Phe Lys Cys Gln Glu Glu Thr Thr Gln Lys Leu
 450 455 460
 Val Leu Glu Tyr Gln Ala Arg Leu Glu Glu Gly Glu Glu Arg Leu Arg
 465 470 475 480
 Arg Gln Gln Glu Asp Lys Asp Ile Gln Met Lys Gly Ile Ile Ser Arg
 485 490 495
 Leu Met Ser Val Glu Glu Glu Leu Lys Lys Asp His Ala Glu Met Gln
 500 505 510
 Ala Ala Val Asp Ser Lys Gln Lys Ile Ile Asp Ala Gln Glu Lys Arg
 515 520 525
 Ile Ala Ser Leu Asp Ala Ala Asn Ala Arg Leu Met Ser Ala Leu Thr
 530 535 540
 Gln Leu Lys Glu Ser Met His
 545 550

<210> 2379

<211> 461

<212> PRT

<213> Homo sapiens

<400> 2379

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Met Gly Ala Gly Pro Gln His Ala Thr Leu Gln Ala Tyr Pro Glu Ala
  1             5             10             15
Gly Thr Ile Glu Gly Leu Ala Ser Leu Leu Val Ala Leu Leu Glu Lys
      20             25             30
Thr Thr Trp Val Asp Arg Val His Ile Leu Gln Val Leu Leu Arg Leu
      35             40             45
Leu Pro Asn Met Ser Ser Asp Leu Gln Gly Gln Leu Gln Gly Leu Leu
      50             55             60
Val His Leu Leu Asn Leu Asp Gln Pro Pro Ser Leu Gln Val Cys Pro
      65             70             75             80
Leu Ser Cys Pro Gln Phe Ser Ser Pro Pro Thr Gly Pro Gln Gln Pro
      85             90             95
His Pro His Arg Leu Pro Gln Asp Gln Thr Gln Lys Lys Phe Val Ile
      100            105            110
Leu Ala Leu Gln Leu Leu Leu Ala Cys Ser Leu Glu Ser Arg Asp Val
      115            120            125
Val Leu Glu Leu Met Ser Tyr Phe Leu Tyr Ser Pro Val His Cys Arg
      130            135            140
Pro Glu Leu Lys Lys Leu Leu His Gly Leu Gly Leu Gln Asp Pro Glu
      145            150            155            160
Gly Phe Leu Phe Lys Glu Met Met Thr Trp Val Gln Gly Pro Asp Leu
      165            170            175
Asp Ser Lys Ala Gly Leu Arg Thr Cys Cys His Gln Lys Leu Glu Asp
      180            185            190
Met Ile Gln Glu Leu Gln Glu Thr Pro Ser Gln Thr Ser Val Val Ser
      195            200            205
Gly Ala Pro Thr Arg Ala Ser Val Ile Pro Ser Gly Thr Ser Trp Ser
      210            215            220
Ala Ser Gly Ile Phe Gly Arg Leu Ser Gln Val Ser Glu Val Pro Leu
      225            230            235            240
Met Val Val Ser Pro Ala Glu Pro His Ser Leu Ala Pro Glu Leu Gln

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	245		250		255										
Ala	Gln	Arg	Met	Leu	Ala	Pro	Thr	Arg	Ser	Trp	Gly	Thr	Pro	Gln	Leu
	260							265					270		
Arg	Leu	Arg	Val	Leu	Ser	Glu	Thr	Leu	Lys	Ser	Phe	Cys	Leu	Glu	Pro
	275							280					285		
Glu	Ala	Arg	Leu	His	Pro	Ala	Gly	Pro	Ala	Gln	Leu	Pro	Gly	Glu	Pro
	290							295					300		
Pro	Pro	Leu	Glu	Glu	Thr	Asp	Trp	Ser	His	Ser	Gln	Leu	Leu	Asp	Leu
305								310					315		320
Gly	Pro	Ile	Asp	Ala	Leu	Asn	Phe	Phe	Cys	Glu	Gln	Leu	Arg	Ala	Gln
								325					330		335
Gln	Arg	Ser	Ser	Leu	Gln	Glu	Lys	Ala	Ala	His	Pro	His	Pro	Pro	Val
	340							345					350		
Pro	Tyr	Thr	Val	Ala	Pro	Val	Pro	Asp	Met	Val	Val	Pro	Pro	Pro	Arg
	355							360					365		
Glu	His	Trp	Tyr	His	Pro	Ile	Leu	Arg	Leu	Gln	Glu	Ala	Lys	Pro	Gln
	370							375					380		
Arg	Ser	Ala	Arg	Ser	Ala	Met	Arg	Leu	Arg	Gly	Pro	Met	Pro	Ser	Arg
385								390					395		400
Leu	Cys	Ala	Gly	Arg	Thr	Leu	Asp	Gly	Pro	Ile	Arg	Thr	Leu	Lys	Leu
								405					410		415
Pro	Leu	Pro	Arg	Val	Glu	Pro	Gln	Pro	Phe	Pro	Leu	Asp	Trp	Pro	Met
	420							425					430		
Pro	Pro	Arg	Pro	Leu	Pro	Pro	Arg	Leu	Leu	Gln	Pro	Ala	Leu	Gln	Arg
	435							440					445		
Tyr	Phe	Leu	Pro	Ala	Asp	Ala	Asp	Pro	Asp	Thr	Tyr	Ser			
	450							455					460		

<210> 2380

<211> 722

<212> PRT

<213> Homo sapiens

<400> 2380

Met Glu Cys Cys Gln Thr Leu Val Ser His His Val Asp Pro Ser Leu

1	5	10	15
Arg Asp Glu Asp Gly Tyr Thr Ala Ala Asp Leu Ala Glu Tyr His Gly			
20	25	30	
His Arg Asp Cys Ala Gln Tyr Leu Arg Glu Val Ala Gln Pro Val Pro			
35	40	45	
Leu Leu Met Thr Pro Pro Pro Pro Phe Pro Pro Pro Pro Leu Leu			
50	55	60	
Ala Thr Arg Arg Ser Leu Glu Asp Gly Arg Arg Gly Gly Pro Gly Pro			
65	70	75	80
Gly Asn Pro Ser Pro Met Ser Leu Ser Pro Ala Trp Pro Gly His Pro			
85	90	95	
Asp Gln Pro Leu Pro Arg Glu Gln Met Thr Ser Pro Ala Pro Pro Arg			
100	105	110	
Ile Ile Thr Ser Ala Thr Ala Asp Pro Glu Gly Thr Glu Thr Ala Leu			
115	120	125	
Ala Gly Asp Thr Ser Asp Gly Leu Ala Ala Leu Gln Leu Asp Gly Leu			
130	135	140	
Pro Ser Gly Asp Ile Asp Gly Leu Val Pro Thr Arg Asp Glu Arg Gly			
145	150	155	160
Gln Pro Ile Pro Glu Trp Lys Arg Gln Val Met Val Arg Lys Leu Gln			
165	170	175	
Ala Arg Leu Gly Ala Glu Ser Ser Ala Glu Ala Gln Asp Asn Gly Gly			
180	185	190	
Ser Ser Gly Pro Thr Glu Gln Ala Ala Trp Arg Tyr Ser Gln Thr His			
195	200	205	
Gln Ala Ile Leu Gly Pro Phe Gly Glu Leu Leu Thr Glu Asp Asp Leu			
210	215	220	
Val Tyr Leu Glu Lys Gln Ile Ala Asp Leu Gln Leu Arg Arg Arg Cys			
225	230	235	240
Gln Glu Tyr Glu Ser Glu Leu Gly Arg Leu Ala Ala Glu Leu Gln Ala			
245	250	255	
Leu Leu Pro Glu Pro Leu Val Ser Ile Thr Val Asn Ser His Phe Leu			
260	265	270	
Pro Arg Ala Pro Gly Leu Glu Val Glu Glu Ala Ser Val Pro Ala Ala			
275	280	285	
Glu Pro Ser Gly Ser Ala Glu Ala Ser Glu Val Ala Pro Gly Val Gln			

290	295	300	
Pro Leu Pro Phe Trp Cys Ser His Ile Ser Arg Leu Val Arg Ser Leu			
305	310	315	320
Ser Leu Leu Leu Lys Gly Val His Gly Leu Val Gln Gly Asp Glu Lys			
325	330	335	
Pro Ser Thr Arg Pro Leu Gln Asp Thr Cys Arg Glu Ala Ser Ala Ser			
340	345	350	
Pro Pro Arg Ser Glu Ala Gln Arg Gln Ile Gln Glu Trp Gly Val Ser			
355	360	365	
Val Arg Thr Leu Arg Gly Asn Phe Glu Ser Ala Ser Gly Pro Leu Cys			
370	375	380	
Gly Phe Asn Pro Gly Pro Cys Glu Pro Gly Ala Gln His Arg Gln Cys			
385	390	395	400
Leu Ser Gly Cys Trp Pro Ala Leu Pro Lys Pro Arg Ser Gly Leu Ala			
405	410	415	
Ser Gly Glu Pro Arg Pro Gly Asp Thr Glu Glu Ala Ser Asp Ser Gly			
420	425	430	
Ile Ser Cys Glu Glu Val Pro Ser Glu Ala Gly Ala Ala Ala Gly Pro			
435	440	445	
Asp Leu Ala Ser Leu Arg Lys Glu Arg Ile Ile Met Leu Phe Leu Ser			
450	455	460	
His Trp Arg Arg Ser Ala Tyr Thr Pro Ala Leu Lys Thr Ala Ala Cys			
465	470	475	480
Arg Thr Leu Gly Ala Arg His Ala Gly Leu Arg Gly Gln Glu Ala Ala			
485	490	495	
Arg Ser Pro Gly Pro Pro Ser Pro Pro Ser Glu Gly Pro Arg Leu Gly			
500	505	510	
His Leu Trp Gln Gln Arg Ser Thr Ile Thr His Leu Leu Gly Asn Trp			
515	520	525	
Lys Ala Ile Met Ala His Val Pro Ala Arg Gln Leu Arg Arg Leu Ser			
530	535	540	
Arg Arg Pro Arg Gly Ala Leu Ser Pro Glu Gln Phe Leu Pro His Val			
545	550	555	560
Asp Gly Ala Pro Val Pro Tyr Ser Ser Leu Ser Leu Asp Leu Phe Met			
565	570	575	
Leu Gly Tyr Phe Gln Leu Leu Glu Cys Asp Leu Pro Ala Glu Glu Arg			

	580		585		590										
Lys	Leu	Arg	His	Leu	Leu	Cys	Phe	Glu	Val	Phe	Glu	His	Leu	Gly	Thr
	595					600						605			
His	Gly	Trp	Glu	Ala	Val	Arg	Ala	Phe	His	Lys	Ala	Val	Thr	Asp	Glu
	610					615						620			
Val	Ala	Ala	Gly	Arg	Arg	Ala	Trp	Thr	Asp	Gly	Phe	Glu	Asp	Ile	Lys
625						630						635			640
Ala	Arg	Phe	Phe	Gly	Ser	Ser	Gln	Arg	Pro	Ala	Trp	Asp	Thr	Glu	Pro
						645						650			655
Gly	Arg	Lys	Ser	Gly	Leu	Thr	Leu	Leu	Gly	Pro	Leu	Pro	His	Ala	Ala
						660						665			670
Val	Pro	Cys	Ser	Gly	Pro	Glu	Pro	Thr	Ala	Gln	Arg	Leu	Gly	Ser	Arg
						675						680			685
Ser	Gln	Gln	Gly	Ser	Phe	Asn	Gly	Glu	Asp	Ile	Cys	Gly	Tyr	Ile	Asn
						690						695			700
Arg	Ser	Phe	Ala	Phe	Trp	Lys	Glu	Lys	Glu	Ala	Glu	Met	Phe	Asn	Phe
705						710						715			720
Gly	Glu														

<210> 2381

<211> 236

<212> PRT

<213> Homo sapiens

<400> 2381

Met	Leu	Thr	Pro	Ser	Ser	Gln	Val	His	Ala	Tyr	Ile	Ile	Ser	Ser	Leu
1						5						10			15
Lys	Lys	Glu	Met	Pro	Asn	Val	Phe	Gly	Lys	Glu	Ser	Lys	Lys	Lys	Glu
						20						25			30
Leu	Val	Asn	Asn	Leu	Gly	Glu	Ile	Tyr	Gln	Lys	Ile	Glu	Arg	Glu	His
						35						40			45
Gln	Ile	Ser	Pro	Gly	Asp	Phe	Pro	Ser	Leu	Arg	Lys	Met	Gln	Glu	Leu
						50						55			60
Leu	Gln	Thr	Gln	Asp	Phe	Ser	Lys	Phe	Gln	Ala	Leu	Lys	Pro	Lys	Leu

65 70 75 80
 Leu Asp Thr Val Asp Asp Met Leu Ala Asn Asp Ile Ala Arg Leu Met
 85 90 95
 Val Met Val Arg Gln Glu Glu Ser Leu Met Pro Ser Gln Val Val Lys
 100 105 110
 Gly Gly Ala Phe Asp Gly Thr Met Asn Gly Pro Phe Gly His Gly Tyr
 115 120 125
 Gly Glu Gly Ala Gly Glu Gly Ile Asp Asp Val Glu Trp Val Val Gly
 130 135 140
 Lys Asp Lys Pro Thr Tyr Asp Glu Ile Phe Tyr Thr Leu Ser Pro Val
 145 150 155 160
 Asn Gly Lys Ile Thr Gly Ala Asn Ala Lys Lys Glu Met Val Lys Ser
 165 170 175
 Lys Leu Pro Asn Thr Val Leu Gly Lys Ile Trp Lys Leu Ala Asp Val
 180 185 190
 Asp Lys Asp Gly Leu Leu Asp Asp Glu Glu Phe Ala Leu Ala Asn His
 195 200 205
 Leu Ile Lys Val Lys Leu Glu Gly His Glu Leu Pro Ala Asp Leu Pro
 210 215 220
 Pro His Leu Val Pro Pro Ser Lys Arg Arg His Glu
 225 230 235

<210> 2382

<211> 162

<212> PRT

<213> Homo sapiens

<400> 2382

Met Ile Tyr Ser Thr Leu Thr Arg Arg Arg Trp Pro Met Pro Glu Pro
 1 5 10 15
 Thr Ser Glu His Leu Asn Leu Arg Pro Cys Leu Ile Tyr Val Leu Phe
 20 25 30
 Tyr Val Gln Val Gln Pro Thr Leu Trp Cys Asn Ala Asn Leu Trp Leu
 35 40 45
 Tyr Cys Ile Thr Ala Asn Lys Ser Ile Trp Arg Lys Arg His Leu Val

50	55	60
Lys Gly His Ser Ala Met Glu Cys Asn Ala Ala Met Cys Asn Ala Ala		
65	70	75
Tyr Lys Lys Thr Leu Gly Lys Tyr Cys Thr Gly Gln Thr Tyr Asp Pro		
85	90	95
Thr Phe Ser Arg Asn Arg Ala Ala Tyr Trp Met Pro Ser Glu Phe Pro		
100	105	110
Phe Ser Val Ser Thr Leu Leu Phe Asp Ala Met Pro Pro His Lys Ser		
115	120	125
Ile Gln Ala Thr Val Ile Tyr Phe Phe Pro Ser Phe Ser Pro Cys Tyr		
130	135	140
Asn Asp Pro Asn Leu Arg Phe Tyr Phe Val Ile Phe Val Ser Phe Leu		
145	150	155
Arg Gln		160

<210> 2383

<211> 776

<212> PRT

<213> Homo sapiens

<400> 2383

Met Gly Thr Val Pro Asp Pro Leu Arg Ser Ala Lys Thr Ser Leu Ile		
1	5	10
Ala Ala Ser Gly Lys Glu Asp Asp Leu Gly Glu Pro Gln Ala Ala Ser		
20	25	30
Pro Arg His Arg Pro Ala Leu Leu Cys Lys Asn Ala Asn Gly Phe Ser		
35	40	45
Gly Ala Pro Ala Glu Pro Asp Leu Ser Pro Arg Ala Ala Ala Glu Ala		
50	55	60
Leu Met Gln Val Cys Glu His Glu Thr Thr Gln Pro Asp Met Ser Ser		
65	70	75
Pro Gly Val Phe Asn Glu Val Gln Lys Ala Pro Ala Thr Phe Asn Ser		
85	90	95
Pro Gly Asn Pro Gln Leu Pro Gly Ser Ser Gln Pro Ala Ala Ser Ala		

100	105	110
Pro Ser Ser Ala Ala Gly Arg Asp Leu Ile His Thr	Pro Leu Thr Met	
115	120	125
Pro Ala Asn Gln His Thr Cys Gln Ser Ile Pro Gly Asp Gln Pro Asn		
130	135	140
Ala Ile Thr Ser Ser Met Pro Glu Asp Ser Leu Met Arg Ser Gln Arg		
145	150	155
Thr Ser Asn Arg Glu Gln Pro Glu Lys Pro Ser Cys Pro Val Gly Gly		
165	170	175
Val Leu Ser Ser Ser Lys Asp Gln Val Ser Cys Glu Phe Pro Ser Pro		
180	185	190
Glu Thr Ile Gln Gly Thr Val Gln Thr Pro Val Thr Ala Ala Arg Val		
195	200	205
Val Ser His Ser Ser Ser Pro Val Gly Gly Pro Glu Gly Glu Arg Gln		
210	215	220
Gly Ala Ile Cys Asp Ser Glu Met Arg Ser Cys Lys Pro Leu Thr Arg		
225	230	235
Glu Ser Gly Cys Ser Glu Asn Lys Gln Pro Ser Val Thr Ala Ser Gly		
245	250	255
Pro Gln Gly Thr Thr Ser Val Thr Pro Gln Pro Thr Pro Leu Thr Ser		
260	265	270
Glu Pro Ser Ala Cys Pro Pro Gly Pro Glu Lys Val Pro Leu Pro Ala		
275	280	285
Gln Arg Gln Met Ser Arg Phe Lys Glu Ala Ser Thr Met Thr Asn Gln		
290	295	300
Ala Glu Ser Glu Ile Lys Glu Val Pro Ser Arg Ala Trp Gln Asp Ala		
305	310	315
Glu Val Gln Ala Val Ala Ser Val Glu Ser Arg Ser Val Ser Thr Ser		
325	330	335
Pro Ser Ile Leu Thr Ala Phe Leu Lys Glu Ser Arg Ala Pro Glu His		
340	345	350
Phe Glu Gln Glu Gln Leu Arg Val Ile Cys Arg Ser Ser Gly Ser His		
355	360	365
Thr Leu Glu Leu Ser Asp Ser Thr Leu Ala Pro Gln Glu Ser Ser Gln		
370	375	380

Cys Pro Gly Ile Met Pro Gln Val His Ile Gln Ala Ala Ala Ala Glu
 385 390 395 400
 Ser Thr Ala Phe Gln Arg Glu Asn Lys Leu Ala Ser Leu Pro Gly Gly
 405 410 415
 Val Leu Lys Thr Ser Ser Ile Asn Leu Val Ser Ser Asn Ala Gln His
 420 425 430
 Thr Cys Lys Glu Asp Gly Arg Leu Ala Gly Met Thr Pro Ala Arg Glu
 435 440 445
 Glu Ser Thr Ala Lys Lys Leu Ala Gly Thr Asn Ser Ser Ser Leu Lys
 450 455 460
 Ala Thr Ala Ile Asp Gln Ile Ser Ile Ser Ala Cys Ser Gln Ala Glu
 465 470 475 480
 Thr Ser Tyr Gly Leu Gly Lys Phe Glu Thr Arg Pro Ser Glu Phe Ala
 485 490 495
 Glu Lys Thr Thr Asn Gly His Lys Thr Asp Pro Asp Cys Lys Leu Ser
 500 505 510
 Asp Ser Cys Gly Ser Ile Ser Lys Ala Asp His Ser Gly Ser Leu Asp
 515 520 525
 Pro Thr Asn Lys Gly Asp Ala Arg Glu Lys Lys Pro Ala Ser Pro Gln
 530 535 540
 Val Val Lys Glu Lys Glu Ser Thr Gly Thr Asp Thr Ser Asp Ala Lys
 545 550 555 560
 Thr Leu Leu Leu Asn Pro Lys Ser Gln Glu Ser Gly Gly Thr Glu Ser
 565 570 575
 Ala Ala Asn Pro Thr Pro Ser Pro Ile Arg Lys Asn Gln Glu Ser Thr
 580 585 590
 Leu Glu Glu Asn Arg Gln Thr Lys Thr Ala Thr Ser Leu Ser Leu Pro
 595 600 605
 Ser Asp Pro Met Gly Asp Ser Ser Pro Gly Ser Gly Lys Lys Thr Pro
 610 615 620
 Ser Arg Ser Val Lys Ala Ser Pro Arg Arg Pro Ser Arg Val Ser Glu
 625 630 635 640
 Phe Leu Lys Glu Gln Lys Leu Asn Val Thr Ala Ala Ala Ala Gln Val
 645 650 655
 Gly Leu Thr Pro Gly Asp Lys Lys Lys Gln Leu Gly Ala Asp Ser Lys
 660 665 670

Leu Gln Leu Lys Gln Ser Lys Arg Val Arg Asp Val Val Trp Asp Glu
 675 680 685
 Gln Gly Met Thr Trp Glu Val Tyr Gly Ala Ser Leu Asp Ala Glu Ser
 690 695 700
 Leu Gly Ile Ala Ile Gln Asn His Leu Gln Arg Gln Ile Arg Glu His
 705 710 715 720
 Glu Lys Leu Ile Lys Thr Gln Asn Ser Gln Thr Arg Arg Ser Ile Ser
 725 730 735
 Ser Asp Thr Ser Ser Asn Lys Lys Leu Arg Gly Arg Gln His Ser Val
 740 745 750
 Phe Gln Ser Met Leu Gln Asn Phe Arg Arg Pro Asn Cys Cys Val Arg
 755 760 765
 Pro Ala Pro Ser Ser Val Leu Asp
 770 775

<210> 2384

<211> 168

<212> PRT

<213> Homo sapiens

<400> 2384

Met Asn Phe Tyr Thr His Glu Val Cys Leu Gly Gly Pro Leu Leu Trp
 1 5 10 15
 Ala Pro Leu Pro Tyr Asp Gly Ser Ile Cys Ser Leu Leu Phe Gln Glu
 20 25 30
 Asp Leu Arg Pro Thr Ile Asn Gly Ser Gln Ile Gln Ile Pro Leu Gln
 35 40 45
 Ala Ala Asn Val His Pro His Tyr Arg Lys Pro Pro Asp Thr Ser His
 50 55 60
 Leu Leu Ala Ala Gln Asp Thr Gly Thr Gln Ile Leu Ala Cys Pro Glu
 65 70 75 80
 Gln Trp Leu Ser Arg Pro Gly Arg Gly Ala Arg Ala Gln Ser Gln Ala
 85 90 95
 Gly Leu Pro Ala His Phe Cys Leu Pro Gly His His His Leu Pro Pro
 100 105 110

Arg Met Asn Leu Lys Leu Gln Gly Asn Glu Glu Lys Pro Arg Ser Glu
 115 120 125
 Gly Thr Cys Asn Gln Gly Cys Pro Lys Trp Pro Leu Ser Arg Pro Ile
 130 135 140
 Ser Lys Tyr Asn Pro His Arg Gly Cys Leu Val Gly Gln Lys Ser Leu
 145 150 155 160
 Gly Leu Val Pro Val Arg Gly Glu
 165

<210> 2385

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2385

Met Leu Cys Arg Asp Val Ala Pro Glu Gly Ile Ser Val Phe Thr Met
 1 5 10 15
 Asp Met Gly Val Trp Asp Arg Leu Ser Cys Lys Gly Ser Val Ser Ile
 20 25 30
 Ser Trp Asp Ser His Ser Val Ser Leu Ser Arg Phe Gln Val Thr Ser
 35 40 45
 Arg Trp Thr Phe Arg Cys Pro Gly Cys Pro Gln Ala Leu Ser His Asp
 50 55 60
 Asp Ser His Phe His Glu Arg His Lys Cys Ile Asn Phe Phe Val Lys
 65 70 75 80
 Val Tyr Gly Tyr Met Pro Leu Leu Tyr Thr Gln Phe Arg Val Asp Ser
 85 90 95
 Val Leu Phe Lys Thr Arg Leu Pro His Asp Lys Thr Lys Cys Phe Lys
 100 105 110
 Phe Ile

<210> 2386

<211> 291

<212> PRT

<213> Homo sapiens

<400> 2386

Met His Asn Lys Arg Lys Arg Pro Arg Lys Lys Ser Pro Arg Ala His
 1 5 10 15
 Arg Glu Met Leu Glu Ser Ala Val Leu Pro Pro Glu Asp Met Ser Gln
 20 25 30
 Ser Gly Pro Ser Gly Ser His Pro Gln Gly Pro Arg Gly Ser Pro Thr
 35 40 45
 Gly Gly Ala Gln Leu Leu Lys Arg Lys Arg Lys Leu Gly Val Val Pro
 50 55 60
 Val Asn Gly Ser Gly Leu Ser Thr Pro Ala Trp Pro Pro Leu Gln Gln
 65 70 75 80
 Glu Gly Pro Pro Thr Gly Pro Ala Glu Gly Ala Asn Ser His Thr Thr
 85 90 95
 Leu Pro Gln Arg Arg Arg Leu Gln Lys Lys Lys Ala Gly Pro Gly Ser
 100 105 110
 Leu Glu Leu Cys Gly Leu Pro Ser Gln Lys Thr Ala Ser Leu Lys Lys
 115 120 125
 Arg Lys Lys Met Arg Val Met Ser Asn Leu Val Glu His Asn Gly Val
 130 135 140
 Leu Glu Ser Glu Ala Gly Gln Pro Gln Ala Leu Gly Ser Ser Gly Thr
 145 150 155 160
 Cys Ser Ser Leu Lys Lys Gln Lys Leu Arg Ala Glu Ser Asp Phe Val
 165 170 175
 Lys Phe Asp Thr Pro Phe Leu Pro Lys Pro Leu Phe Phe Arg Arg Ala
 180 185 190
 Lys Ser Ser Thr Ala Thr His Pro Pro Gly Pro Ala Val Gln Leu Asn
 195 200 205
 Lys Thr Pro Ser Ser Ser Lys Lys Val Thr Phe Gly Leu Asn Arg Asn
 210 215 220
 Met Thr Ala Glu Phe Lys Lys Thr Asp Lys Ser Ile Leu Val Ser Pro
 225 230 235 240
 Thr Gly Pro Ser Arg Val Ala Phe Asp Pro Glu Gln Lys Pro Leu His
 245 250 255

Gly Val Leu Lys Thr Pro Thr Ser Ser Pro Ala Ser Ser Pro Leu Val
 260 265 270
 Ala Lys Lys Pro Leu Thr Thr Thr Pro Arg Arg Arg Pro Arg Ala Met
 275 280 285
 Asp Phe Phe
 290

<210> 2387

<211> 241

<212> PRT

<213> Homo sapiens

<400> 2387

Met Asn His Glu Trp Ile Gly Asn Glu Trp Leu Pro Ser Leu Gly Leu
 1 5 10 15
 Pro Gln Tyr Arg Ser Tyr Phe Met Glu Cys Leu Val Asp Ala Arg Met
 20 25 30
 Leu Asp His Leu Thr Lys Lys Asp Leu Arg Gly Gln Leu Lys Met Val
 35 40 45
 Asp Ser Phe His Arg Asn Ser Phe Gln Cys Gly Ile Met Cys Leu Arg
 50 55 60
 Arg Leu Asn Tyr Asp Arg Lys Glu Leu Glu Arg Lys Arg Glu Glu Ser
 65 70 75 80
 Gln Ser Glu Ile Lys Asp Val Leu Val Trp Ser Asn Asp Arg Val Ile
 85 90 95
 Arg Trp Ile Leu Ser Ile Gly Leu Lys Glu Tyr Ala Asn Asn Leu Ile
 100 105 110
 Glu Ser Gly Val His Gly Ala Leu Leu Ala Leu Asp Glu Thr Phe Asp
 115 120 125
 Phe Ser Ala Leu Ala Leu Leu Leu Gln Ile Pro Thr Gln Asn Thr Gln
 130 135 140
 Ala Arg Ala Val Leu Glu Arg Glu Phe Asn Asn Leu Leu Val Met Gly
 145 150 155 160
 Thr Asp Arg Arg Phe Asp Glu Asp Asp Asp Lys Ser Phe Arg Arg Ala

<211> 144

〈213〉 Homo sapiens

Met	Pro	Gln	Ile	Glu	Gly	Trp	Ser	His	Arg	Leu	Pro	Arg	Leu	Ser	Pro
1				5					10					15	
Leu	Pro	Val	Thr	Arg	Pro	His	Ser	Phe	Leu	Pro	Pro	Arg	Arg	Ser	Gln
			20					25					30		
Gly	Gly	Arg	Ser	Arg	Leu	Asp	Ala	Phe	Leu	Thr	Pro	Phe	Gln	Val	Ala
			35				40					45			
Pro	Asp	Ala	Gly	His	Trp	Glu	Val	Ala	Thr	Trp	Gly	His	Gly	His	Glu
	50					55				60					
Gly	Trp	Val	Ser	Val	Gly	Thr	Arg	Arg	Ala	Gly	Cys	Trp	Thr	Pro	Thr
65				70					75					80	
His	Pro	Val	Ser	Cys	Thr	Arg	Pro	Tyr	Ser	Leu	Cys	Ser	Gly	Pro	Gln
			85					90					95		
Glu	Ala	Val	Arg	Ile	Gly	Gly	Val	Pro	Leu	Thr	Gly	Pro	Gly	Ala	Phe
			100					105					110		
His	Leu	Gly	Ser	Cys	His	Val	His	Pro	Gln	Ala	Ser	Asp	Ser	Trp	Pro
	115					120					125				

Arg Gly Arg Trp Cys Gly Pro Gln Ala Val Cys Ala Asp Ala Ala Arg
 130 135 140

<210> 2389

<211> 113

<212> PRT

<213> Homo sapiens

<400> 2389

Met Phe Ser Ser Lys Ser Phe Lys Val Leu Ala Leu Ile Phe Arg Leu
 1 5 10 15
 Leu Ile His Ile Glu Leu Asn Phe Val Tyr Gly Met Ile Asn Phe Ile
 20 25 30
 Tyr Asp Met Leu Tyr Met Gly Ser Thr Ser Phe Tyr Gly Tyr Leu Val
 35 40 45
 Val Gln Ala Leu Phe Val Glu Glu Ser Phe Leu Cys Pro Leu Asn Gly
 50 55 60
 Leu Val Thr Leu Val Glu Asn Lys Pro Tyr Arg Pro Met Leu Ala Ile
 65 70 75 80
 Gly Phe Ile Ser Gly Leu Ser Ile Leu Phe His Trp Phe Val Cys Val
 85 90 95
 Phe Leu Ser Leu Asn Asn Thr Ile Leu Ile Ile Val Leu Cys Ser Lys
 100 105 110
 Phe

<210> 2390

<211> 124

<212> PRT

<213> Homo sapiens

<400> 2390

Met Val Val Val Leu Ala Tyr Ile Pro Thr Ile Ser Val Lys Ala Phe
 1 5 10 15

Phe His His Val Cys Ala Asn Ile Asn Phe Cys Phe Phe Cys Phe Cys
 20 25 30
 Phe Cys Phe Phe Phe Glu Met Glu Ser Arg Ser Val Thr Gln Ala Gly
 35 40 45
 Val Gln Trp Cys Asp Ile Ser Ser Leu Gln Pro Leu Pro Pro Gly Phe
 50 55 60
 Lys Gln Phe Phe Cys Leu Ser Leu Leu Ser Ser Trp Asp Tyr Arg Gln
 65 70 75 80
 Leu Pro Pro Cys Leu Ala Asn Phe Cys Ile Phe Ser Arg Asp Ser Val
 85 90 95
 Ser Pro Cys Trp Ser Gly Trp Ser Gln Thr Pro Asp Leu Leu Ile Arg
 100 105 110
 Pro Pro Arg Pro Pro Lys Val Leu Gly Leu Gln Ala
 115 120

<210> 2391

<211> 163

<212> PRT

<213> Homo sapiens

<400> 2391

Met Ala Trp Arg Pro Pro Ser Pro Asp Leu Gly Pro Gln Ala Gln Gly
 1 5 10 15
 His Ile Glu Gln Glu Asp Gly Ala Leu Pro His Ser Gly Glu Ala Glu
 20 25 30
 Arg Gly Asp Leu Pro Pro Leu Gly Pro Leu Leu Thr Pro Ser Leu Pro
 35 40 45
 Pro Thr Pro Glu Thr Ser Pro Leu Pro Thr Gly Leu Ala Thr Leu Leu
 50 55 60
 Thr Trp Pro Val Leu Asp Leu Val Asp Val Ala Ala Val Gln Arg Lys
 65 70 75 80
 Glu Arg Leu Arg Trp Gln Ser Arg Pro Leu Ser Leu Pro Lys Leu Ser
 85 90 95
 Asn Phe Ser Pro Phe Leu Pro Pro Arg Lys Leu Ala Ala Gln Ser His
 100 105 110

Val Gln Asn Pro Ala Gly His Leu His Gly Ala Asn Tyr Gln Gln Val
 115 120 125
 Ser Phe Leu Arg His Arg Val Gln Ala Ala Thr Pro Ala Pro Glu Met
 130 135 140
 Lys Gly Gln Leu Cys Lys Asp Pro Glu Pro Ala Pro Arg Gly Pro Glu
 145 150 155 160
 Pro Pro Thr

<210> 2392

<211> 175

<212> PRT

<213> Homo sapiens

<400> 2392

Met His Ala His Lys Gln Ala Ser Thr His Val His Ile Thr His Thr
 1 5 10 15
 Ser Arg His Ser Cys Thr Asp Ser Tyr Thr Gly His Val Pro Ala Arg
 20 25 30
 Thr Cys Thr His Thr His Ala Gln Ala Leu Met His Arg Cys Thr His
 35 40 45
 Thr Gln Gly Met Tyr Leu His Thr Arg Val Asn Thr Arg Thr Gly Thr
 50 55 60
 His Ala Asp Ala Arg Ile His Ser Ala Ser Thr Cys Thr Arg Val His
 65 70 75 80
 Ile His Ala His Ala Gly Thr His Ala Gln Met His Thr Gln Cys Thr
 85 90 95
 Tyr Leu His Thr Arg Val His Thr His Thr His Arg His Ser Cys Pro
 100 105 110
 Asp Ala Asn Ile His Cys Thr Tyr Leu His Thr Arg Ala His Thr His
 115 120 125
 Ala Gln Ala Leu Met Gln Thr Tyr Ala Gln Cys Thr Tyr Leu His Thr
 130 135 140
 Arg Thr His Thr His Thr Gln Ala Leu Met His Arg Cys Thr His Thr
 145 150 155 160

Gln Cys Thr Tyr Leu His Thr Arg Val His Ala His Thr Val Pro
 165 170 175

<210> 2393

<211> 189

<212> PRT

<213> Homo sapiens

<400> 2393

Met Pro Glu Gln Ser Asn Asp Tyr Arg Val Ala Val Phe Gly Ala Gly
 1 5 10 15
 Gly Val Gly Lys Ser Ser Leu Val Leu Arg Phe Val Lys Gly Thr Phe
 20 25 30
 Arg Glu Ser Tyr Ile Pro Thr Val Glu Asp Thr Tyr Arg Gln Val Ile
 35 40 45
 Ser Cys Asp Lys Ser Ile Cys Thr Leu Gln Ile Thr Asp Thr Thr Gly
 50 55 60
 Ser His Gln Phe Pro Ala Met Gln Arg Leu Ser Ile Ser Ile Thr Ser
 65 70 75 80
 Arg Gln Ser Leu Glu Glu Leu Lys Pro Ile Tyr Glu Gln Ile Cys Glu
 85 90 95
 Ile Lys Gly Asp Val Glu Ser Ile Pro Ile Met Leu Val Gly Asn Lys
 100 105 110
 Cys Asp Glu Ser Pro Ser Arg Glu Val Gln Ser Ser Glu Ala Glu Ala
 115 120 125
 Leu Ala Arg Thr Trp Lys Cys Ala Phe Met Glu Thr Ser Ala Lys Leu
 130 135 140
 Asn His Asn Val Lys Glu Leu Phe Gln Glu Leu Leu Asn Leu Glu Lys
 145 150 155 160
 Arg Arg Thr Val Ser Leu Gln Ile Asp Gly Lys Lys Ser Lys Gln Gln
 165 170 175
 Lys Arg Lys Glu Lys Leu Lys Gly Lys Cys Val Ile Met
 180 185

<210> 2394

<211> 190

<212> PRT

<213> Homo sapiens

<400> 2394

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Met Ala Ala Ser Gln Gln Gln Ala Ser Ala Ala Ser Ser Ala Ala Gly
 1             5             10            15
Val Ser Gly Pro Ser Ser Ala Gly Gly Pro Gly Pro Gln Gln Gln Pro
      20             25            30
Gln Pro Pro Ala Gln Leu Val Gly Pro Ala Gln Ser Gly Leu Leu Gln
      35             40            45
Arg Tyr Lys Met Leu Ile Pro Gln Leu Lys Glu Ser Leu Gln Thr Leu
      50             55            60
Met Lys Val Ala Ala Gln Asn Leu Ile Gln Asn Thr Asn Ile Asp Asn
      65             70            75            80
Gly Gln Lys Ser Ser Asp Gly Pro Ile Gln Arg Phe Asp Lys Cys Leu
      85             90            95
Glu Glu Phe Tyr Ala Leu Cys Asp Gln Leu Glu Leu Cys Leu Arg Leu
      100            105            110
Ala His Glu Cys Leu Ser Gln Ser Cys Asp Ser Ala Lys His Ser Pro
      115            120            125
Thr Leu Val Pro Thr Ala Thr Lys Pro Asp Ala Val Gln Pro Asp Ser
      130            135            140
Leu Pro Tyr Pro Gln Tyr Leu Ala Val Ile Lys Ala Gln Ile Ser Cys
      145            150            155            160
Ala Lys Asp Ile His Thr Ala Leu Leu Asp Cys Ala Asn Lys Val Thr
      165            170            175
Gly Lys Thr Pro Ala Pro Pro Ala Gly Pro Gly Gly Thr Leu
      180            185            190

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<210> 2395

<211> 174

<212> PRT

<213> Homo sapiens

<400> 2395

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Met Ser Glu Phe Pro Phe Thr Thr Asn Arg Ile Lys Tyr Leu Gly Ile
  1              5              10              15
Gln Leu Thr Arg Asp Val Lys Asp Leu Phe Lys Glu His Tyr Lys Pro
      20              25              30
Leu Leu Lys Glu Ile Arg Gly His Lys Gln Met Glu Lys Asn Ile Leu
      35              40              45
Cys Ser Trp Ile Gly Arg Ile Asn Ile Val Lys Met Ala Ile Leu Pro
      50              55              60
Lys Val Ile Tyr Arg Phe Lys Ala Thr Pro Ile Lys Leu Pro Leu Thr
      65              70              75              80
Phe Phe Ala Glu Leu Glu Lys Thr Thr Leu Asn Phe Leu Trp Asn His
      85              90              95
Lys Arg Ala His Ile Val Lys Thr Ile Leu Ser Lys Lys Lys Ala Gly
      100             105             110
Gly Ile Arg Leu Pro Asp Phe Lys Leu Tyr Tyr Lys Ala Asn Gln Asn
      115             120             125
Thr Tyr Arg Gly Gln Trp Asn Arg Thr Glu Thr Ser Glu Ile Thr Pro
      130             135             140
Asp Ile Tyr Leu Gly Ile Gln Leu Val Ser Asn Ser Arg Pro Gln Val
      145             150             155             160
Ile Leu Leu Pro Trp Pro Pro Lys Val Leu Gly Leu Gln Ala
      165             170

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<210> 2396

<211> 141

<212> PRT

<213> Homo sapiens

<400> 2396

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Met Leu Ala Cys Cys Ser Pro Pro Thr Met Gln Pro Gly Ser Tyr Gln
  1              5              10              15

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Ala Thr Asp Gln Tyr Gln Ser Thr Ala Gln Gly Leu Gly Thr Pro Gly
 20 25 30
 Val Ser Ser Gly Ser Phe Ala Leu Pro Met Pro Pro Gly Leu Ala Ala
 35 40 45
 Val Leu Glu Thr Gly Val Ser Arg Arg Leu Cys Ser Trp Trp Ala Gly
 50 55 60
 Ala Glu Met Ala Glu Ala His Pro Ile Ile Cys Gln Lys Glu Asp Thr
 65 70 75 80
 Leu Val Ser Pro Gly Leu Gly Thr Leu Gln Phe Ala Ala Leu Leu Arg
 85 90 95
 Leu Ala Ser Gly Gln Leu Leu Thr Leu Pro Leu Thr Pro Gln Ser Gln
 100 105 110
 Ala Pro Asp Ala Pro Trp Thr Ser Pro Thr Pro Arg Val Ile Trp Ser
 115 120 125
 Gly Ser Ala Gly Val Thr Leu Ser Leu Thr Lys Gly Phe
 130 135 140

<210> 2397

<211> 445

<212> PRT

<213> Homo sapiens

<400> 2397

Met Pro Asn Ser Ser Pro Lys Asp Pro Thr Thr Ala Ser Gly Asn Gly
 1 5 10 15
 Ser Lys Val Glu Arg Glu Lys Arg Lys Asp Glu Leu Leu Asn Ile Ala
 20 25 30
 Lys Ser Lys Gln Glu Arg Thr Asn Ser Glu Leu His Asn Leu Arg Gln
 35 40 45
 Ile Tyr Val Lys Gln Gln Ser Asp Leu Gln Phe Leu Asn Phe Asn Val
 50 55 60
 Glu Asn Ser Gln Glu Leu Ile Gln Met Tyr Asp Ser Lys Met Glu Glu
 65 70 75 80
 Ser Lys Ala Leu Asp Ser Ser Arg Asp Met Cys Leu Ser Asp Leu Glu
 85 90 95

Asn Asn His Pro Lys Val Asp Ile Lys Arg Glu Lys Asn Gln Lys Ser			
100	105	110	
Leu Phe Lys Asp Gln Lys Phe Glu Ala Met Leu Val Gln Gln Asn Arg			
115	120	125	
Ser Asp Lys Ser Ser Cys Asp Glu Cys Lys Glu Lys Lys Gln Gln Ile			
130	135	140	
Asp Thr Val Phe Gly Glu Lys Ser Val Ile Thr Leu Ser Ser Ile Phe			
145	150	155	160
Thr Lys Asp Leu Val Glu Lys His Asn Leu Pro Trp Ser Leu Gly Gly			
165	170	175	
Lys Thr Gln Ile Glu Pro Glu Asn Lys Ile Thr Leu Cys Lys Ile His			
180	185	190	
Thr Lys Ser Pro Lys Cys His Gly Thr Gly Val Gln Asn Glu Gly Lys			
195	200	205	
Gln Pro Ser Glu Thr Pro Thr Leu Ser Asp Glu Lys Gln Trp His Asp			
210	215	220	
Val Ser Val Tyr Leu Gly Leu Thr Asn Cys Pro Ser Ser Lys His Pro			
225	230	235	240
Glu Lys Leu Asp Val Glu Cys Gln Asp Gln Met Glu Arg Ser Glu Ile			
245	250	255	
Ser Cys Cys Gln Lys Asn Glu Ala Cys Leu Gly Glu Ser Gly Met Cys			
260	265	270	
Asp Ser Lys Cys Cys His Pro Ser Asn Phe Ile Ile Glu Ala Pro Gly			
275	280	285	
His Met Ser Asp Val Glu Trp Met Ser Ile Phe Lys Pro Ser Lys Met			
290	295	300	
Gln Arg Ile Val Arg Leu Lys Ser Gly Cys Thr Cys Ser Glu Ser Ile			
305	310	315	320
Cys Gly Thr Gln His Asp Ser Pro Ala Ser Glu Leu Ile Ala Ile Gln			
325	330	335	
Asp Ser His Ser Leu Gly Ser Ser Lys Ser Ala Leu Arg Glu Asp Glu			
340	345	350	
Thr Glu Ser Ser Ser Asn Lys Lys Asn Ser Pro Thr Ser Leu Leu Ile			
355	360	365	
Tyr Lys Asp Ala Pro Ala Phe Asn Glu Lys Ala Ser Ile Val Leu Pro			
370	375	380	

Ser	Gln	Asp	Asp	Phe	Ser	Pro	Thr	Ser	Lys	Leu	Gln	Arg	Leu	Leu	Ala
385					390					395					400
Glu	Ser	Arg	Gln	Met	Val	Thr	Asp	Leu	Glu	Leu	Ser	Thr	Leu	Leu	Pro
				405					410					415	
Ile	Ser	His	Glu	Asn	Leu	Thr	Gly	Ser	Ala	Thr	Asn	Lys	Ser	Glu	Val
				420					425				430		
Pro	Glu	Glu	Ser	Ala	Gln	Lys	Asn	Thr	Phe	Val	Ser	Tyr			
				435				440				445			

<210> 2398

<211> 339

<212> PRT

<213> Homo sapiens

<400> 2398

Met	Glu	Lys	Gly	Leu	Ser	Ser	Thr	Ile	Arg	Val	Val	Gly	His	Val	Pro
1				5					10					15	
Gly	Glu	Phe	Pro	Val	Ser	Val	Trp	Val	Thr	Ala	Ala	Asp	Cys	Trp	Met
			20					25					30		
Cys	Gln	Pro	Val	Ala	Arg	Gly	Phe	Val	Val	Leu	Pro	Ile	Thr	Glu	Phe
			35				40					45			
Leu	Val	Gly	Asp	Leu	Val	Val	Thr	Gln	Asn	Thr	Ser	Leu	Pro	Trp	Pro
	50						55				60				
Ser	Ser	Tyr	Leu	Thr	Lys	Thr	Val	Leu	Lys	Val	Ser	Phe	Leu	Leu	His
65					70					75					80
Asp	Pro	Ser	Asn	Phe	Leu	Lys	Thr	Ala	Leu	Phe	Leu	Tyr	Ser	Trp	Asp
			85						90					95	
Phe	Gly	Asp	Gly	Thr	Gln	Met	Val	Thr	Glu	Asp	Ser	Val	Val	Tyr	Tyr
			100					105					110		
Asn	Tyr	Ser	Ile	Ile	Gly	Thr	Phe	Thr	Val	Lys	Leu	Lys	Val	Val	Ala
		115					120					125			
Glu	Trp	Glu	Glu	Val	Glu	Pro	Asp	Ala	Thr	Arg	Ala	Val	Lys	Gln	Lys
	130						135				140				
Thr	Gly	Asp	Phe	Ser	Ala	Ser	Leu	Lys	Leu	Gln	Glu	Thr	Leu	Arg	Gly
145					150					155					160

Ile Gln Val Leu Gly Pro Thr Leu Ile Gln Thr Phe Gln Lys Met Thr
 165 170 175
 Val Thr Leu Asp Phe Leu Gly Ser Pro Pro Leu Thr Val Cys Trp Arg
 180 185 190
 Leu Lys Pro Glu Cys Leu Pro Leu Glu Glu Gly Glu Cys His Pro Val
 195 200 205
 Ser Val Ala Ser Thr Ala Tyr Asn Leu Thr His Thr Phe Arg Asp Pro
 210 215 220
 Gly Asp Tyr Cys Phe Ser Ile Arg Ala Glu Asn Ile Ile Ser Lys Thr
 225 230 235 240
 His Gln Tyr His Lys Ile Gln Val Trp Pro Ser Arg Ile Gln Pro Ala
 245 250 255
 Val Phe Ala Phe Pro Cys Ala Thr Leu Ile Thr Val Met Leu Ala Phe
 260 265 270
 Ile Met Tyr Met Thr Leu Arg Asn Ala Thr Gln Gln Lys Asp Met Val
 275 280 285
 Glu Asn Pro Glu Pro Pro Ser Gly Val Arg Cys Cys Cys Gln Met Cys
 290 295 300
 Cys Gly Pro Phe Leu Leu Glu Thr Pro Ser Glu Tyr Leu Glu Ile Val
 305 310 315 320
 Arg Glu Asn His Gly Leu Leu Pro Pro Leu Tyr Lys Ser Val Lys Thr
 325 330 335
 Tyr Thr Val

<210> 2399

<211> 196

<212> PRT

<213> Homo sapiens

<400> 2399

Met Ser Pro Trp Lys Asp Gly Gly Ser Leu Val Glu Val Tyr Leu Leu
 1 5 10 15
 Asp Thr Ser Ile Gln Ser Asp His Arg Glu Ile Glu Gly Arg Val Met
 20 25 30

Val	Thr	Asp	Phe	Glu	Asn	Val	Pro	Glu	Glu	Asp	Gly	Thr	Arg	Phe	His
35						40						45			
Arg	Gln	Ala	Ser	Lys	Cys	Asp	Ser	His	Gly	Thr	His	Leu	Ala	Gly	Val
50						55						60			
Val	Ser	Gly	Arg	Asp	Ala	Gly	Val	Ala	Lys	Gly	Ala	Ser	Met	Arg	Ser
65						70						75			
Leu	Arg	Val	Leu	Asn	Cys	Gln	Gly	Lys	Gly	Thr	Val	Ser	Gly	Thr	Leu
			85						90						
Ile	Gly	Leu	Glu	Phe	Ile	Arg	Lys	Ser	Gln	Leu	Val	Gln	Pro	Val	Gly
100						105						110			
Pro	Leu	Val	Val	Leu	Leu	Pro	Leu	Ala	Gly	Gly	Tyr	Ser	Arg	Val	Leu
115						120						125			
Asn	Ala	Ala	Cys	Gln	Arg	Leu	Ala	Arg	Ala	Gly	Val	Val	Leu	Val	Thr
130						135						140			
Ala	Ala	Gly	Asn	Phe	Arg	Asp	Asp	Ala	Cys	Leu	Tyr	Ser	Pro	Ala	Ser
145						150						155			
Ala	Pro	Glu	Gly	Arg	Thr	Ser	Leu	Val	Pro	Pro	Ala	Thr	Ala	Ala	Pro
			165						170						
Ala	Leu	Cys	His	Arg	Val	Gly	His	His	Arg	Leu	Leu	Pro	Thr	Trp	Leu
180						185						190			
Ala	Leu	Gln	Pro												
195															

<210> 2400

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2400

Met Cys His Tyr Ala Trp Leu Ile Phe Val Glu Met Arg Phe His His
1 5 10 15
Val Ala Gln Ala Gly Leu Tyr Leu Leu Ser Ser Ser Asp Leu Pro Ala
20 25 30
Ser Ala Ser Gln Cys Trp Val Cys Arg His Glu Pro Leu Cys Pro Val
35 40 45

Arg Met Ala Ile Leu Met Ile Lys Ala Lys Ile Phe Ile Leu Leu Ser
 50 55 60
 Arg Phe Gly Ile His Ile Pro Glu Asn Ser Met Ile His Pro Leu Thr
 65 70 75 80
 Thr Asn Phe Arg Lys Gln Ala Val Leu Phe His Ser Leu Lys Asn Asn
 85 90 95
 Arg Ser Pro Ser Asn Lys
 100

<210> 2401

<211> 117

<212> PRT

<213> Homo sapiens

<400> 2401

Met Lys Phe Phe His Asp Leu Asp Val Ile Leu Gln Tyr Glu Pro Ala
 1 5 10 15
 Thr Gln Phe Thr Glu Glu Asp Ala Asn Gly Arg Tyr Leu Glu Thr Leu
 20 25 30
 Ser Pro Ser Thr Ala Pro Glu Thr Thr Glu Glu Phe Leu Leu Val Cys
 35 40 45
 Asp Thr Arg Lys Lys Gly Arg Lys Arg Lys Cys Leu Phe His Cys Trp
 50 55 60
 Asp Gln Pro His Ala Ser Gly Lys Met Ser Ile Ala Ser Val Asp Lys
 65 70 75 80
 Glu Asp Val Ser Gly Asn Pro Leu Leu Leu Val Ser His Val Arg Pro
 85 90 95
 Met Glu Leu Gly Thr Leu Arg Gln Tyr Trp Asn Pro Leu Ile Ile Gln
 100 105 110
 Leu Leu Thr Gln Leu
 115

<210> 2402

<211> 103

<212> PRT

<213> Homo sapiens

<400> 2402

Met Gln Ser Lys Leu Ile Leu Ser Leu Cys Thr Phe Val Ser Ala Gly
 1 5 10 15
 His Cys Leu Phe Arg Glu Leu Val Ala Gln Gly Leu His Met Gly Ala
 20 25 30
 Lys Met Val Val Asp Thr Pro Trp Cys Thr Phe Cys Phe Thr Cys Phe
 35 40 45
 Leu Arg Leu Phe His Lys Ser Cys Glu Ala Lys Lys Gln Asn Lys Thr
 50 55 60
 Lys Gln Pro Asn Lys Tyr Asn Leu Thr Phe Thr Gln Ser Thr Ala Gly
 65 70 75 80
 Asn Gln Arg Ser Gly Trp Asn Glu Arg Lys Tyr Ala Lys Arg Ser Phe
 85 90 95
 Leu Ser Leu Ile Ser Cys Leu
 100

<210> 2403

<211> 172

<212> PRT

<213> Homo sapiens

<400> 2403

Met Gln Glu Gly Pro Ser Gly Ala Gly Leu Gly Pro His Ile Gly Leu
 1 5 10 15
 Pro Gly His Leu Ile Tyr Leu Gly Ser Asn Lys Glu Pro Trp Arg Gln
 20 25 30
 Ala Arg Ala Val Ala Lys Arg Pro Arg Ser Cys Gly Thr Arg Leu Val
 35 40 45
 Pro Ala Ser Val Pro Leu Ser Leu Glu Phe Gly Arg Ala Leu Ser Ser
 50 55 60
 Ala Gly Val Cys Ser Arg Pro Met Pro Glu Val Gly Pro Leu Ala Ile
 65 70 75 80

Val Ser Ile Gly Gly Val Ser Ser Pro Pro Ser Gly Asn Pro Tyr Ser
 85 90 95
 Gly Thr Leu His Cys Cys Gly Gly Val His Thr Gly Gly Cys Glu Ser
 100 105 110
 His Cys Ala Val Leu Ala Gln Gly Ser Gly Lys Gly Phe Trp Glu Gly
 115 120 125
 Met Gly Thr Lys Leu Asp Leu Asn Asp Glu Ala Glu Leu Val Ser Gln
 130 135 140
 Ala Arg Gly Val Gln Arg Asp His Ser Ala Glu Ala Lys Ala Val Lys
 145 150 155 160
 Lys Val Ala Trp Met Val Thr His Arg Ser Arg Ala
 165 170

<210> 2404

<211> 711

<212> PRT

<213> Homo sapiens

<400> 2404

Met Leu Ala Ser Leu Lys Val Lys Lys Gln Glu Leu Ala Asn Ser Ser
 1 5 10 15
 Asp Ala Thr Leu Pro Asp Arg Pro Leu Ser Pro Pro Leu Thr Ala Pro
 20 25 30
 Pro Thr Met Lys Ser Ser Glu Phe Phe Glu Met Leu Glu Lys Met Gln
 35 40 45
 Gly Ile Lys Leu Glu Glu Gln Lys Pro Gly Pro Gln Lys Asn Lys Asp
 50 55 60
 Asp Tyr Ile Pro Tyr Pro Ser Ile Asp Glu Val Val Glu Lys Gly Gly
 65 70 75 80
 Pro Tyr Pro Gln Val Ile Leu Pro Gln Phe Gly Gly Tyr Trp Ile Glu
 85 90 95
 Asp Pro Glu Asn Val Gly Thr Pro Thr Ser Leu Gly Ser Ser Ile Cys
 100 105 110
 Glu Glu Glu Glu Glu Asp Asn Leu Ser Pro Asn Thr Phe Gly Tyr Lys
 115 120 125

Leu Glu Cys Lys Gly Glu Ala Arg Ala Tyr Arg Arg His Phe Leu Gly
 130 135 140
 Lys Asp His Leu Asn Phe Tyr Cys Thr Gly Ser Ser Leu Gly Asn Leu
 145 150 155 160
 Ile Leu Ser Val Lys Cys Glu Glu Ala Glu Gly Ile Glu Tyr Leu Arg
 165 170 175
 Val Ile Leu Arg Ser Lys Leu Lys Thr Val His Glu Arg Ile Pro Leu
 180 185 190
 Ala Gly Leu Ser Lys Leu Pro Ser Val Pro Gln Ile Ala Lys Ala Phe
 195 200 205

 Cys Asp Asp Ala Val Gly Leu Arg Phe Asn Pro Val Leu Tyr Pro Lys
 210 215 220
 Ala Ser Gln Met Ile Val Ser Tyr Asp Glu His Glu Val Asn Asn Thr
 225 230 235 240
 Phe Lys Phe Gly Val Ile Tyr Gln Lys Ala Arg Gln Thr Leu Glu Glu
 245 250 255
 Glu Leu Phe Gly Asn Asn Glu Glu Ser Leu Ala Phe Lys Glu Phe Leu
 260 265 270
 Asp Leu Leu Gly Asp Thr Ile Thr Leu Gln Asp Phe Lys Gly Phe Arg
 275 280 285
 Gly Gly Leu Asp Val Thr His Gly Gln Thr Gly Val Glu Ser Val Tyr
 290 295 300
 Thr Thr Phe Arg Asp Arg Glu Ile Met Phe His Val Ser Thr Lys Leu
 305 310 315 320
 Pro Phe Thr Asp Gly Asp Ala Gln Gln Leu Gln Arg Lys Arg His Ile
 325 330 335
 Gly Asn Asp Ile Val Ala Ile Ile Phe Gln Glu Glu Asn Thr Pro Phe
 340 345 350
 Val Pro Asp Met Ile Ala Ser Asn Phe Leu His Ala Tyr Ile Val Val
 355 360 365
 Gln Val Glu Thr Pro Gly Thr Glu Thr Pro Ser Tyr Lys Val Ser Val
 370 375 380
 Thr Ala Arg Glu Asp Val Pro Thr Phe Gly Pro Pro Leu Pro Ser Pro
 385 390 395 400
 Pro Val Phe Gln Lys Gly Pro Glu Phe Arg Glu Phe Leu Leu Thr Lys

	405		410		415
Leu Thr Asn Ala Glu Asn Ala Cys Cys Lys Ser Asp Lys Phe Ala Lys					
	420		425		430
Leu Glu Asp Arg Thr Arg Ala Ala Leu Leu Asp Asn Leu His Asp Glu					
	435		440		445
Leu His Ala His Thr Gln Ala Met Leu Gly Leu Gly Pro Glu Glu Asp					
	450		455		460
Lys Phe Glu Asn Gly Gly His Gly Gly Phe Leu Glu Ser Phe Lys Arg					
465		470		475	480
Ala Ile Arg Val Arg Ser His Ser Met Glu Thr Met Val Gly Gly Gln					
	485		490		495
Lys Lys Ser His Ser Gly Gly Ile Pro Gly Ser Leu Ser Gly Gly Ile					
	500		505		510
Ser His Asn Ser Met Glu Val Thr Lys Thr Thr Phe Ser Pro Pro Val					
	515		520		525
Val Ala Ala Thr Val Lys Asn Gln Ser Arg Ser Pro Ile Lys Arg Arg					
	530		535		540
Ser Gly Leu Phe Pro Arg Leu His Thr Gly Ser Glu Gly Gln Gly Asp					
545		550		555	560
Ser Arg Ala Arg Cys Asp Ser Thr Ser Ser Thr Pro Lys Thr Pro Asp					
	565		570		575
Gly Gly His Ser Ser Gln Glu Ile Lys Ser Glu Thr Ser Ser Asn Pro					
	580		585		590
Ser Ser Pro Glu Ile Cys Pro Asn Lys Glu Lys Pro Phe Met Lys Leu					
	595		600		605
Lys Glu Asn Gly Arg Ala Ile Ser Arg Ser Ser Ser Ser Thr Ser Ser					
	610		615		620
Val Ser Ser Thr Ala Gly Glu Gly Glu Ala Met Glu Glu Gly Asp Ser					
625		630		635	640
Gly Gly Ser Gln Pro Ser Thr Thr Ser Pro Phe Lys Gln Glu Val Phe					
	645		650		655
Val Tyr Ser Pro Ser Pro Ser Ser Glu Ser Pro Ser Leu Gly Ala Ala					
	660		665		670
Ala Thr Pro Ile Ile Met Ser Arg Ser Pro Thr Asp Ala Lys Ser Arg					
	675		680		685
Asn Ser Pro Arg Ser Asn Leu Lys Phe Arg Phe Asp Lys Leu Ser His					

690 695 700
 Ala Ser Ser Gly Ala Gly His
 705 710

<210> 2405

<211> 165

<212> PRT

<213> Homo sapiens

<400> 2405

Met Glu His Met Glu Phe Arg Arg Lys Pro Thr Lys Thr Pro Ala Cys
 1 5 10 15
 Gln Thr His Pro Val Pro Glu Arg Gly Val Pro Leu Ser Phe Asn Glu
 20 25 30
 Leu Pro Val Ile Thr Ala Met Pro Ser Pro Arg Trp Gly Gly Val Leu
 35 40 45
 Gly Cys Phe Ser Gln Arg Pro Leu Phe Pro Ala Ala Ile Ser Phe Thr
 50 55 60
 Trp Thr Thr Leu Leu Ala His Val Pro Leu Ala Ser Thr Gly Gly His
 65 70 75 80
 Arg Pro Glu Pro Trp Val Gln Gly Cys Pro Ser Leu Leu Pro Ser Pro
 85 90 95
 Pro Leu Lys Ala Gln Ser Cys Trp Val Gly Cys Leu Gly Leu Pro Ser
 100 105 110
 Phe Pro Trp Lys Pro Val Ala Thr Leu Val His Gly Thr Leu Asp Lys
 115 120 125
 Ser Ala Pro Arg Gly Gln Thr Cys Ala Pro Ile Leu Ala Cys Ile Leu
 130 135 140
 Arg Thr Pro His Ala Ala Gly Leu Cys Ala Trp Gly Gly Val Ala Ser
 145 150 155 160
 Leu Ser Trp Ser Val
 165

<210> 2406

<211> 120

<212> PRT

<213> Homo sapiens

<400> 2406

Met Ala His Gly Ser Thr Gln Ala Phe Leu Ser Pro Trp Ser Ser Gln
 1 5 10 15
 Leu Leu Thr Ser Thr Thr Cys Arg Ile Arg Gly His Arg Ser Arg Gln
 20 25 30
 Arg Glu Gly Val Thr Arg Gly Gln Met Val Gln Gly Arg Arg Asp Ser
 35 40 45
 Arg Leu His Ala Gly Gln Arg Asn Ser Lys Gly Arg Arg Ile Ala Glu
 50 55 60
 Ala Gly Gly Lys Ala Ala Arg Ala Arg Gly Thr Gln Ser Tyr Cys Thr
 65 70 75 80
 Pro Lys Arg Gln Pro Val Leu Glu Arg Ala Ala Ala Lys Pro Ile Tyr
 85 90 95
 Cys Ser Phe Tyr Tyr Ser Val Leu Pro Gly Leu Arg Pro Gly Lys Leu
 100 105 110
 Phe Gln Ala Glu Ile Thr Ala His
 115 120

<210> 2407

<211> 106

<212> PRT

<213> Homo sapiens

<400> 2407

Met Gly Glu Cys Tyr Pro Cys Gln Val Val Gly Ala Ser Trp Leu Gln
 1 5 10 15
 Ser Trp Val Gly Asp Leu Gly Lys Met Leu Trp Lys Ala Val Ser Gly
 20 25 30
 Trp Cys Gln Leu Leu Val Val Gln Trp Glu Ile Trp Ser Gly Met Gly
 35 40 45
 Trp Ser Glu Gly Gly Arg Gly Ile Trp Cys Gly Val Asp Gln Arg Asn